

b	6961	 ATTTCAATCCCCAACTTCGTGGTCCCAATCCCTGCCCTAATTTTTTCTCCAGAGCACC	7021
y	7277	CATTACCAACCATCAAATAATATGTTTTTAATTTACCAATGTTTACAATCTGTATCCCT	7336
b	7021	CATTACCAACCATCAAATAATGTTTTTAATTTACCAATGTTTACAATCTGTATCCCT	7080
y	7337	CCATTAGGAAGTAATCTCCAATGTGCAAAAGAGTTTTTTTTTTTTCATTTGTTTAATGCTG	7396
b	7081	CCATTAGGAAGTAATCTCCAATGTGCAAAAGAGTTTTTTTTTTTTCATTTGTTTAATGCTG	7140
y	7397	GGTCCCACACCAAGAACAGTCCCTGGSCACACAGCAGGTCTCAATGATTATTGGTACAT	7456
b	7141	GGTCCCACACCAAGAACAGTCCCTGGSCACACAGCAGGTCTCAATGATTATTGGTACAT	7200
y	7457	AGAGTGAAAGAGATGGAGCCTCAGGCTGACCTTAGAGAGCAAGGCAGAGCAAAAGATAAA	7516
b	7201	AGAGTGAAAGAGATGGAGCCTCAGGCTGACCTTAGAGAGCAAGGCAGAGCAAAAGATAAA	7260
y	7517	AGGGCCCCCTCCCTCGGGGTTTTAGAACCTTCCCAAGCCCCCTTAAGCCAGTCTTCTGTC	7576
b	7261	AGGGCCCCCTCCCTCGGGGTTTTAGAACCTTCCCAAGCCCCCTTAAGCCAGTCTTCTGTC	7320
y	7577	CCCCAGAACCCCGGAACAAAACAAGTTTCCGCTCGATAGCTACAGCAGCCCACTTTC	7636
b	7321	CCCCAGGAACCCCGGAACAAAACAAGTTTCCGCTCGATAGCTACAGCAGCCCACTTTC	7380
y	7637	TGCGACCACTGTGGCTCCCTCTACTACGGGCTGTGCACCAAGGGCATGAAATGCTCCTGT	7696
b	7381	TGCGACCACTGTGGCTCCCTCTCTACTACGGGCTGTGCACCAAGGGCATGAAATGCTCCTGT	7440
y	7697	GAGTGACCTGGGCTTTGCAGGGCCCTTCCAAAGCCCGGTCGGTTCCGGGAAATGC	7756
b	7441	GAGTGACCTGGGCTTTGCAGGGCCCTTCCAAAGCCCGGTCGGTTCCGGGAAATGC	7500
y	7757	CCGGAGATGGGGTGGGGGTGGAGTCTTGGCTTGGGGCGGGGCTGAGGTGTACCCGCA	7816
b	7501	CCGGAGATGGGGTGGGGGTGGAGTCTTGGCTTGGGGCGGGGCTGAGGTGTACCCGCA	7560
y	7817	GGTTTTCCCTCCAGGCTGCGAGATGAACGTGCACCCGGCGCTGTGTGCGTAGGGTGCCCTC	7876
b	7561	GGTTTTCCCTCCAGGCTGCGAGATGAACGTGCACCCGGCGCTGTGTGCGTAGGGTGCCCTC	7620
y	7877	CCTGTGCGGTGGGACCAACCCAGCGCCCGGGCGCTGCAGCTGGAGATCGGGGCTCC	7936
b	7621	CCTGTGCGGTGGGACCAACCCAGCGCCCGGGCGCTGCAGCTGGAGATCGGGGCTCC	7680
y	7937	CACAGCAGATGAGATCCAGTAACTGGTGAAGGCCCGCCCTCTGGCTGGCCCGGCCCCC	7996
b	7681	CACAGCAGATGAGATCCAGTAACTGGTGAAGGCCCGCCCTCTGGCTGGCCCGGCCCCC	7740
y	7997	TCCCCAAAGTGTAGCGGGGCTGACCCCAAGGCACATGTGCTGGCCCGAGCCCTACCCCAA	8056
b	7741	TCCCCAAAGTGTAGCGGGGCTGACCCCAAGGCACATGTGCTGGCCCGAGCCCTACCCCAA	7800
y	8057	GATGGGGCCACGCCCTCTTTTCTATGGTCAAGCCCACTCTGCACCCCAACCCAAAGGCG	8116
b	7801	GATGGGGCCACGCCCTCTTTCTATGGTCAAGCCCACTCTGCACCCCAACCCAAAGGCG	7860
y	8117	AGCACACCCAGCCATACCCTTTTGGCTCGAAGCCCCGCTCAACCTGGCTTTCTTGCAA	8176
b	7861	AGCACACCCAGCCATACCCTTTTGGCTCGAAGCCCCGCTCAACCTGGCTTTCTTGCAA	7920
y	8177	CTTTCTGCACCTGTTAATGACCTTTCATTTTCTTTTCTTTTGGGACGGAGTTTGCCTCT	8236
b	7921	CTTTCTGCACCTGTTAATGACCTTTCATTTTCTTTTCTTTTGGGACGGAGTTTGCCTCT	7980
y	8237	TGTTGCTCAAGCTGGAGTGCAATGGCGGATCTCGGCTCACTGCAACTTTCGCCCTCCGG	8296
b	7981	TGTTGCTCAAGCTGGAGTGCAATGGCGGATCTCGGCTCACTGCAACTTTCGCCCTCCGG	8040
y	8297	GTTCAAGTGAATTCCTCCCTCAGCCTCCCGAGTAGCTGGGATTAACAGCGGCTGTACCC	8356

8041	DB	GTTCAAAGTGATTTCTCCGTCTCAGCCTCCCGAGTAGCTGGGATTTACAGGCGCGGTGCACC	8100
8357	QY	AAGCCCGCCTAAATTTTTTTGTATTTTAACTACAAACGGGGTTTCCACATGTTAGCCAGGCT	8416
8101	DB	AAGCCCGCCTAAATTTTTTTGTATTTTAACTACAAACGGGGTTTCCACATGTTAGCCAGGCT	8160
8417	QY	GGTCTCGAACTCTGACCCGAGTGATTCCTCTCGACTCGGCTCTCCAAAGTGTCTGGGATT	8476
8161	DB	GGTCTCGAACTCTCTGACCCGAGTGATTCCTCTCGACTCGGCTCTCCAAAGTGTCTGGGATT	8220
8477	QY	AACAGGCGTGAGCCACCGCGCTGGCCAAATGGCTCTCTTTTGTGTTTATTTATTTATGTTTT	8536
8221	DB	AACAGGCGTGAGCCACCGCGCTGGCCAAATGGCTCTCTTTTGTGTTTATTTATTTATGTTTT	8280
8537	QY	ATTTTTTTGAGATCGAGTCTTTGTCTCTGCTACCCAGAGCTGGAGTGCAGTGGTCAATCTTG	8596
8281	DB	ATTTTTTTGAGATCGAGTCTTTGTCTCTGCTACCCAGAGCTGGAGTGCAGTGGTCAATCTTG	8340
8597	QY	GCTCACTGCAATCTCTGCTCTCGGGGTTCAAGGGAATCTCTGCTCCCTCAGCCTCCCGAGTA	8656
8341	DB	GCTCACTGCAATCTCTGCTCTCGGGGTTCAAGGGAATCTCTGCTCCCTCAGCCTCCCGAGTA	8400
8657	QY	GCTGGAAATACAGCGCCTGCCACCAATCCGCTAAATTTTTTTTTTTTTTTTTTTTTTTTGA	8716
8401	DB	GCTGGAAATACAGCGCCTGCCACCAATCCGCTAAATTTTTTTTTTTTTTTTTTTTTTTTGA	8460
8717	QY	GACAAGATCTCGCTCTGTTGCCACAGGCTGGAGTGCAGTAGCATGATCTCAGCTCACTGCA	8776
8461	DB	GACNAGATCTCGCTCTGTTGCCACAGGCTGGAGTGCAGTAGCATGATCTCAGCTCACTGCA	8520
8777	QY	ACTTCGCGCTCTCAGGTTCAAGCGATTCCTCTGCTTCCGCTCCTCAGTAGCTGGGACTA	8836
8521	DB	ACTTCGCGCTCTCAGGTTCAAGCGATTCCTCTGCTTCCGCTCCTCAGTAGCTGGGACTA	8580
8837	QY	CAGGTGCATGACACTGCACCCAGCTCAATTTTGTATTTTTTACTAGAGACAGGGTTTCACC	8896
8581	DB	CAGGTGCATGACACTGCACCCAGCTCAATTTTGTATTTTTTACTAGAGACAGGGTTTCACC	8640
8897	QY	ATGCTAGCCAGGCTGGTCTGGAACTCTGACCTCAGGTGATCCGCCCGCTCCGCTCC	8956
8641	DB	ATGCTAGCCAGGCTGGTCTGGAACTCTGACCTCAGGTGATCCGCCCGCTCCGCTCC	8700
8957	QY	AAAGTCTGGGATTAACAGGGGTGAGACCGCTGCCGGCAATGGCTTCTGGGTATAAGGA	9016
8701	DB	AAAGTCTGGGATTAACAGGGGTGAGACCGCTGCCGGCAATGGCTTCTGGGTATAAGGA	8760
9017	QY	TCTTGAGAGGGGAGAGTACTGTGTTCTGAGGAGAGCTGTGGTTCACTAGTGTGACATGG	9076
8761	DB	TCTTGAGAGGGGAGAGTACTGTGTTCTGAGGAGAGCTGTGGTTCACTAGTGTGACATGG	8820
9077	QY	CCAGGTTCCAAACTCTGTTTCTTAATGAGAGAGAGGCTCTCGATCTGATTTTCAGGCTCA	9136
8821	DB	CCAGGTTCCAAACTCTGTTTCTTAATGAGAGAGAGGCTCTCGATCTGATTTTCAGGCTCA	8880
9137	QY	CTGGTTTCGGAAGGGCTCTATGCCCTGTCTTCTGGGTTCTGGAGAGGTAAGAAGTCAATG	9196
8881	DB	CTGGTTTCGGAAGGGCTCTATGCCCTGTCTTCTGGGTTCTGGAGAGGTAAGAAGTCAATG	8940
9197	QY	AGAAACGAGACTGAGAGCTTGGAATCTTTTTTTTTTTTTTTTTTTTTTTGACGAGTCTCGCTG	9256
8941	DB	AGAAACGAGACTGAGAGCTTGGAATCTTTTTTTTTTTTTTTTTTTTTTTGACGAGTCTCGCTG	9000
9257	QY	TGACGCCACAGGCTGGAGTGCAGTGGCGTAATCTCGGCTCAGCTGCAGCTCCGACTCTGG	9316
9001	DB	TGACGCCACAGGCTGGAGTGCAGTGGCGTAATCTCGGCTCAGCTGCAGCTCCGACTCTGG	9060
9317	QY	GTTTCAGCTCAATCTCCCGCTCAGCCTCTCTGAGTAGCTGGGACCAACAGACCTGCCACC	9376
9061	DB	GTTTCAGCTCAATCTCCCGCTCAGCCTCTCTGAGTAGCTGGGACCAACAGACCTGCCACC	9120
9377	QY	ACGCCACGACTAATTTTTTTTTTTTTTTTTTTTGTATTTTTTGTGGAGACGGGGTTTCACTCA	9436
9121	DB	ACGCCACGACTAATTTTTTTTTTTTTTTTTTTTGTATTTTTTGTGGAGACGGGGTTTCACTCA	9180

QY	9437	CAGATGGTCTCGATCTCTGACCTTGTGATCCGCGCGCTTGGCTCCCAAGTGTCTGG	10517	CTCCGCAACGACTTCATGGGGCCATGTCTTTGGCGTCTCGAGCTGCTCAAGGCGCC	10576
DB	9181	CAGATGGTCTCGATCTCTGACCTTGTGATCCGCGCGCTTGGCTCCCAAGTGTCTGG	10261	CTCCGCAACGACTTCATGGGGCCATGTCTTTGGCGTCTCGAGCTGCTCAAGGCGCC	10320
QY	9497	GATTACAGGCATGAGCCCGCTGCTGGCCAAAGCTTGGAACTCTTGATTTGCTGACTGGAG	10577	CGTGGATGGCTGCTGAGGAGCAGGGCTGGGGCTGGGGATGGAGCGCAATATTACCAATCT	10636
DB	9241	GATTACAGGCATGAGCCCGCTGCTGGCCAAAGCTTGGAACTCTTGATTTGCTGACTGGAG	10321	CGTGGATGGCTGCTGAGGAGCAGGGCTGGGGCTGGGGATGGAGCGCAATATTACCAATCT	10380
QY	9557	GAGGGCTGGGAGCCCTTCTTGGATCTCTAAACCGGTCAACCTTCCTCACTCCCGGTTT	10637	CAATCTGTGTGTCTCTCTCTCCAGGCACTGTCTTCCCTCTGCTCCCTCCAGCATGC	10696
DB	9301	GAGGGCTGGGAGCCCTTCTTGGATCTCTAAACCGGTCAACCTTCCTCACTCCCGGTTT	10381	CAATCTGTGTGTCTCTCTCTCCAGGCACTGTCTTCCCTCTGCTCCCTCCAGCATGC	10440
QY	9617	AGTTGGCGAGCCCGTAACTTCTTATGGAACCCCAATGGTCTCTCTGATCCCTATGT	10697	GCAC	10756
DB	9361	AGTTGGCGAGCCCGTAACTTCTTATGGAACCCCAATGGTCTCTCTGATCCCTATGT	10441	GCAC	10500
QY	9677	GAATCTGAAGCTCATCTCCAGACCTCTGGAACTCTGACGAAACAGAAAGACCCGAGTAA	10757	ATTCTTCTCTTCTTCTCCCTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT	10816
DB	9421	GAATCTGAAGCTCATCTCCAGACCTCTGGAACTCTGACGAAACAGAAAGACCCGAGTAA	10501	ATTCTTCTCTTCTTCTCCCTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT	10560
QY	9737	AGCCACGCTAAACCTGTGTGGATAGAGACCTTTGTGTGTGTGTGTGTGTGTGTGTGTGT	10817	TCCTTCCCATCTCTGT	10876
DB	9796	AGCCACGCTAAACCTGTGTGGATAGAGACCTTTGTGTGTGTGTGTGTGTGTGTGTGTGT	10561	TCCTTCCCATCTCTGT	10620
QY	9481	AGCCACGCTAAACCTGTGTGGATAGAGACCTTTGTGTGTGTGTGTGTGTGTGTGTGTGT	10877	TCCTTCCCATCTCTGT	10936
DB	9797	GGCAATGACAGCTGACAGAGAACTCTGAGGGTCTAGTGGCCCCCAGAGAGCAGCTGA	10621	TCCTTCCCATCTCTGT	10680
QY	9541	GGCAATGACAGCTGACAGAGAACTCTGAGGGTCTAGTGGCCCCCAGAGAGCAGCTGA	10937	AGTTTACTGAACAGAGAGAGGGCGAGTATTACATGTGCGGTGGCCGATGCTGACAAAC	10996
DB	9856	GGCAATGACAGCTGACAGAGAACTCTGAGGGTCTAGTGGCCCCCAGAGAGCAGCTGA	10681	AGTTTACTGAACAGAGAGAGGGCGAGTATTACATGTGCGGTGGCCGATGCTGACAAAC	10740
QY	9857	TGGGAGGGGTTAGGATAGAGGAAACCCAGAAAGGCGAGAAAGATGGTGGGAAAGGG	10997	TGCAGCTCTCCAGAGTTTGAGGTACCCAGACCTTGGCTTCTCAAGGGAGCCAGGCC	11056
DB	9601	TGGGAGGGGTTAGGATAGAGGAAACCCAGAAAGGCGAGAAAGATGGTGGGAAAGGG	10741	TGCAGCTCTCCAGAGTTTGAGGTACCCAGACCTTGGCTTCTCAAGGGAGCCAGGCC	10800
QY	9917	AATAGAGTGTAGGAGAGTGGGATGGAGATACAGAAACGGAGAGACAGCCAGACCACTG	11057	CAGCTCTCCAGAGTTTGAGGTACCCAGACCTTGGCTTCTCAAGGGAGCCAGGCC	11116
DB	9661	AATAGAGTGTAGGAGAGTGGGATGGAGATACAGAAACGGAGAGACAGCCAGACCACTG	10801	CAGCTCTCCAGAGTTTGAGGTACCCAGACCTTGGCTTCTCAAGGGAGCCAGGCC	10860
QY	9977	TATTAATTAGTCTCCATTGAGCCCTTCTAGGTTTACAGTTTACAGAGATGAGAGAGAG	11117	GACTAGCTTCCAGAGACCTTAGGACTCCCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT	11176
DB	9721	TATTAATTAGTCTCCATTGAGCCCTTCTAGGTTTACAGTTTACAGAGATGAGAGAGAG	10861	GACTAGCTTCCAGAGACCTTAGGACTCCCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT	10920
QY	10037	AGAGAGTCTCAGAGAGGAGAAACCCAGAAAGAGACACAGATGGAGAGGAGGGAGAA	11177	CCAGGTCTGATGGGAATTATAGTTCTCTATCTATCGCATGTGCTTGAAGGTACTAGGGGC	11236
DB	9781	AGAGAGTCTCAGAGAGGAGAAACCCAGAAAGAGACACAGATGGAGAGGAGGGAGAA	10921	CCAGGTCTGATGGGAATTATAGTTCTCTATCTATCGCATGTGCTTGAAGGTACTAGGGGC	10980
QY	10097	GATGGGGATGGCAGGAGACAGAGATCAGTTGACAGAAAGACAGAGTATAGAGACCCA	11237	CACAGCCCCCTGTCTAGGGCGATCCCTCTGCACTCTCTTGGGACCTCTCTCTCTCTCT	11296
DB	9841	GATGGGGATGGCAGGAGACAGAGATCAGTTGACAGAAAGACAGAGTATAGAGACCCA	10981	CACAGCCCCCTGTCTAGGGCGATCCCTCTGCACTCTCTTGGGACCTCTCTCTCTCTCT	11040
QY	10157	GAGAGGAGAGAGGGTACAGAGATCTCAGAGAGAGATCTCGAGAGACAGAGACAGAGA	11297	TTTCTCCAGGCTGTGAACTACCCCTGGAAATTGATAGGTGATAGGTAGTAGAACAGGGGCT	11356
DB	9901	GAGAGGAGAGAGGGTACAGAGATCTCAGAGAGAGATCTCGAGAGACAGAGACAGAGA	11041	TTTCTCCAGGCTGTGAACTACCCCTGGAAATTGATAGGTGATAGGTAGTAGAACAGGGGCT	11100
QY	10217	TGGAAAGGGCGGAGAAATGCAAGGAGGAGGAGAGAGAGCTCTCTAGGTTTACTTCAG	11357	GAATGGAGGAGGTTTGGCTACTTCTCTGATTTCTTATTTCTCTCTCTCTCTCTCTCT	11416
DB	9961	TGGAAAGGGCGGAGAAATGCAAGGAGGAGGAGAGAGAGCTCTCTAGGTTTACTTCAG	11101	GAATGGAGGAGGTTTGGCTACTTCTCTGATTTCTTATTTCTCTCTCTCTCTCTCTCT	11160
QY	10277	GCCCAAAAGCCCTTAGCTGGAGAGAGAGCCCGGCTGGAGAGGTCTAGAGTCCGAGACCGAC	11417	CAATTTCCCAACACATGAGTTGAGCAACATTTGTGTAGGCTGTCTTGTGTGTGTGTGT	11476
DB	10021	GCCCAAAAGCCCTTAGCTGGAGAGAGAGCCCGGCTGGAGAGGTCTAGAGTCCGAGACCGAC	11161	CAATTTCCCAACACATGAGTTGAGCAACATTTGTGTAGGCTGTCTTGTGTGTGTGTGT	11220
QY	10337	AAACGAGAGAGAGCCCACTGGCTGGGTTTCCGCCCTCCAGCACCAGAGGATGGG	11477	TAAATCAGGATCAGAGATGAATCTGACCTCAAGCAACTCTCAAGGTAGGGAGACAGT	11536
DB	10081	AAACGAGAGAGAGCCCACTGGCTGGGTTTCCGCCCTCCAGCACCAGAGGATGGG	11221	TAAATCAGGATCAGAGATGAATCTGACCTCAAGCAACTCTCAAGGTAGGGAGACAGT	11280
QY	10397	GAACGAGGAGGAGCCATGAGCTCGGCTCTGACCCCACTCAACCCCACTTCTCTCAGCAA	11537	CACAGATCTTAAATACAGAAAGATGTCTAAATTAGAGGTAGCCAGGGCACTGAAGA	11596
DB	10141	GAACGAGGAGGAGCCATGAGCTCGGCTCTGACCCCACTCAACCCCACTTCTCTCAGCAA	11281	CACAGATCTTAAATACAGAAAGATGTCTAAATTAGAGGTAGCCAGGGCACTGAAGA	11340
QY	10457	CCTGAAACCCAGGGATGTGGAGCGCCGGCTCAGCGTGGAGGTGTGGAGCTGGGACCGGAC	11597	GGCCTAACGAGGACCTAATCCAGCCTGGGGAGGGTGTGTCAGGGAGGACTTCCCTCTGAGG	11656
DB	10201	CCTGAAACCCAGGGATGTGGAGCGCCGGCTCAGCGTGGAGGTGTGGAGCTGGGACCGGAC			

2Y	13817	ACACGGTGAATCCC	CGTCTCTACTATAAAATACAAAAAATTAGCTGGCGCTGGTGTTGGG	13876	
2B	13561	ACACGGTGAATCCC	CGTCTCTACTATAAAATACAAAAAATTAGCTGGCGCTGGTGTTGGG	13620	
2Y	13877	TGCCTGTAGTCCG	AGGTACTCAGAGGCTGAGGCAGGAGATGGCATGAACCTTGGGAGGT	13936	
2B	13621	TGCCTGTAGTCCG	AGGTACTCAGAGGCTGAGGCAGGAGATGGCATGAACCTTGGGAGGT	13680	
2Y	13937	GGAGCTTGC	AATGAGCGCAGATCGTGCCACTGCATCTACAGCCTGGGTGACAGACGAC	13996	
2B	13681	GGAGCTTGC	AATGAGCGCAGATCGTGCCACTGCATCTACAGCCTGGGTGACAGACGAC	13740	
2Y	13997	TCTATCTCAG	AAAAAAGAGAGAAATGGGCTCTGCAGGAGACAAGGGTACCAGC	14056	
2B	13741	TCTATCTCAG	AAAAAAGAGAGAAATGGGCTCTGCAGGAGACAAGGGTACCAGC	13800	
2Y	14057	GGGAGACATCT	CGACCAAGAGGTAGTCTTTTGAGATCAGCAGGAGTATCTCTCC	14116	
2B	13801	GGGAGACATCT	CGACCAAGAGGTAGTCTTTTGAGATCAGCAGGAGTATCTCTCC	13860	
2Y	14117	GTACAAACCA	AGAAACCCAGAGGCAGATGGTGGCAAGCCCTAGAGCAGGGAGTG	14176	
2B	13861	GTACAAACCA	AGAAACCCAGAGGCAGATGGTGGCAAGCCCTAGAGCAGGGAGTG	13920	
2Y	14177	TAGGGTGTGTG	TGCTGTTGTGGCTCAGACACTCTCCCA	CAGTTTCAGGAGCACCA	14236
2B	13921	TAGGGTGTGTG	TGCTGTTGTGGCTCAGACACTCTCCCA	CAGTTTCAGGAGCACCA	13980
2Y	14237	CTTTATATTA	CCAAATCAACACCAACTCTGTGCAAGCCCTGAGCTAGGTAGTACGGGGCTAAC	14296	
2B	13981	CTTTATATTA	CCAAATCAACACCAACTCTGTGCAAGCCCTGAGCTAGGTAGTACGGGGCTAAC	14040	
2Y	14297	AACACAGCAA	CAGAAACAGCCCTGATTTATTTATTTATTTATTTATTTATTTAT	14356	
2B	14041	AACACAGCAA	CAGAAACAGCCCTGATTTATTTATTTATTTATTTATTTATTTAT	14100	
2Y	14357	TATTTATTTAT	TGTTATTTATCTATTTGAGACACAGTCTGCCTGTGCGCCAGGCTCGAA	14416	
2B	14101	TATTTATTTAT	TGTTATTTATCTATTTGAGACACAGTCTGCCTGTGCGCCAGGCTCGAA	14160	
2Y	14417	TGCAGTGGAG	CGCATCTCAGCTCACTGCAACCTCTGCCTCCCGGGTTCAGGCGATTCCTCT	14476	
2B	14161	TGCAGTGGAG	CGCATCTCAGCTCACTGCAACCTCTGCCTCCCGGGTTCAGGCGATTCCTCT	14220	
2Y	14477	GGCTTGGCTCC	CAAGTAGTGGGACTACAGGCGATGTGCGACCATGTGCTACTAATTTTTT	14536	
2B	14221	GGCTTGGCTCC	CAAGTAGTGGGACTACAGGCGATGTGCGACCATGTGCTACTAATTTTTT	14280	
2Y	14537	ATATTGCTAG	TAGATGGGCTTCGCCATGTGTGCGAGGCTGGTCTTTGAATCTCTGACC	14596	
2B	14281	ATATTGCTAG	TAGATGGGCTTCGCCATGTGTGCGAGGCTGGTCTTTGAATCTCTGACC	14340	
2Y	14597	TCAGGTGATCT	CGCCACCTCGGCCTCCAAAGTGTGGGATTTACAGGCGATGAGCCACCGC	14656	
2B	14341	TCAGGTGATCT	CGCCACCTCGGCCTCCAAAGTGTGGGATTTACAGGCGATGAGCCACCGC	14400	
2Y	14657	ACCGAGCCCTC	AAACAAATTTATGTAGCCTCAATGAGGTAGGCGAGTGTACTGTGCTTT	14716	
2B	14401	ACCGAGCCCTC	AAACAAATTTATGTAGCCTCAATGAGGTAGGCGAGTGTACTGTGCTTT	14460	
2Y	14717	AGCGAAACAA	GAGACCCCTGCTTAGGGAGCTCAGGCGCAAGAACAGATAGTACACACA	14776	
2B	14461	AGCGAAACAA	GAGACCCCTGCTTAGGGAGCTCAGGCGCAAGAACAGATAGTACACACA	14520	
2Y	14777	GATAGATGTA	ATTAATTAAGAAATAAAGTGCCAGAAAGTGCTGTCCATGTGTGACCAAGG	14836	
2B	14521	GATAGATGTA	ATTAATTAAGAAATAAAGTGCCAGAAAGTGCTGTCCATGTGTGACCAAGG	14580	
2Y	14837	GGTGGTAAG	GAGGCGATCTGACCCAGTTTTAAAGATCTAGGGCGAGGCTCTATGAAGTGAT	14896	
2B	14581	GGTGGTAAG	GAGGCGATCTGACCCAGTTTTAAAGATCTAGGGCGAGGCTCTATGAAGTGAT	14640	

Qy	14897	GCTTGAGTCAAGGCTCTAAAGGGGTGTTTGGGAGACAATCTAGAGGAGGAAGGGGAGGGGAGAG	14955
Db	14641	GCTTGAGTCAAGGCTCTAAAGGGGTGTTTGGGAGACAATCTAGAGGAGGAAGGGGAGGGGAGAG	14700
Qy	14957	CTTTACAGGAAGACCTTACCGGCACATCCAGAGGCCCTCAGGTGGGAGGAGGACAATGAG	15016
Db	14701	CTTTACAGGAAGACCTTACCGGCACATCCAGAGGCCCTCAGGTGGGAGGAGGACAATGAG	14760
Qy	15017	TGTCAGGCCAGGGTGGCCATCTGAGCCTGGGAGAGAGAAGACAACCTTGCAAGTGTC	15076
Db	14761	TGTCAGGCCAGGGTGGCCATCTGAGCCTGGGAGAGAGAAGACAACCTTGCAAGTGTC	14820
Qy	15077	AGTCTCAGCCTGGCTCTGCAAGTCATGTGGAAATAAAATCTTAAACACAGAGGGACAGTTA	15136
Db	14821	AGTCTCAGCCTGGCTCTGCAAGTCATGTGGAAATAAAATCTTAAACACAGAGGGACAGTTA	14880
Qy	15137	AAGGGTTTAAAGCATAGGGGAGACATGACCTGGTTATTTATTTTAAATTTGGCTCCTG	15196
Db	14881	AAGGGTTTAAAGCATAGGGGAGACATGACCTGGTTATTTATTTTAAATTTGGCTCCTG	14940
Qy	15197	TGCTCTCAGTAGAGAAATGCAATTAGAAAGGCGACCGTCCATGTAGAGGACAAGTGTC	15256
Db	14941	TGCTCTCAGTAGAGAAATGCAATTAGAAAGGCGACCGTCCATGTAGAGGACAAGTGTC	15000
Qy	15257	GAAGCTGTGACAGCACTTAGTCTTTGGGCGCCCTCCCTGGGGGGCCGAGGCAGGAAAAGG	15316
Db	15001	GAAGCTGTGACAGCACTTAGTCTTTGGGCGCCCTCCCTGGGGGGCCGAGGCAGGAAAAGG	15060
Qy	15317	TAGAGAAGGGACCTTAGCTGAAAGCCAGGTGTGCTCCCTGGACGTGGCAGCACCCATGTCA	15376
Db	15061	TAGAGAAGGGACCTTAGCTGAAAGCCAGGTGTGCTCCCTGGACGTGGCAGCACCCATGTCA	15120
Qy	15377	CCCAGAACGCTTTTACATAACGAATCTCAGGTCCCAACCCCGAGATTTTATAGAGTTAGAA	15436
Db	15121	CCCAGAACGCTTTTACATAACGAATCTCAGGTCCCAACCCCGAGATTTTATAGAGTTAGAA	15180
Qy	15437	AATCTGGCAGTGGGACCCAGCAATCTGTTTACAAACCCCTCTAGGGAAATTCGGCTTAG	15496
Db	15181	AATCTGGCAGTGGGACCCAGCAATCTGTTTACAAACCCCTCTAGGGAAATTCGGCTTAG	15240
Qy	15497	AGGCTAAGAGCAACAGATTTCTAGAGCTGGACTGCTGGGTTCATTTCTGGCTCTGTCC	15556
Db	15241	AGGCTAAGAGCAACAGATTTCTAGAGCTGGACTGCTGGGTTCATTTCTGGCTCTGTCC	15300
Qy	15557	TTTACCTGCTGTGTGACTTTGGGGCAAGTACTTAACGTCTCTGTGCTAGTCTCCTTTCT	15616
Db	15301	TTTACCTGCTGTGTGACTTTGGGGCAAGTACTTAACGTCTCTGTGCTAGTCTCCTTTCT	15360
Qy	15617	GTAAAAATGAAACGATAGCAGGGTTTTCTGGAAACAGCATATGATAAGCTATCTAAAAA	15676
Db	15361	GTAAAAATGAAACGATAGCAGGGTTTTCTGGAAACAGCATATGATAAGCTATCTAAAAA	15420
Qy	15677	AAAAAAGAGAAAAAAGAGCTAAGTGTGTTGTTGAATAATAATAAACCCCTCCAGGCTAT	15736
Db	15421	AAAAAAGAGAAAAAAGAGCTAAGTGTGTTGTTGAATAATAATAAACCCCTCCAGGCTAT	15480
Qy	15737	GGGAGTTCAGAGAAATTAAGCCAAGGACAGGCTAGGAGGGTGGCCATTTTCTCTGTCT	15796
Db	15481	GGGAGTTCAGAGAAATTAAGCCAAGGACAGGCTAGGAGGGTGGCCATTTTCTCTGTCT	15540
Qy	15797	AGCGATTTCTATCCCTTTCCTTTCTTTGGGTGTGTGTCTCTTTGGGAGCAATTTCTTATCGC	15856
Db	15541	AGCGATTTCTATCCCTTTCCTTTCTTTGGGTGTGTGTCTCTTTGGGAGCAATTTCTTATCGC	15600
Qy	15857	TGTGTAAGTCTTAACTGCTCTGGCTCTTTCTTTCTCTTTCCATCTTTCCACAGCGGTGGGATGG	15916
Db	15601	TGTGTAAGTCTTAACTGCTCTGGCTCTTTCTTTCTCTTTCCATCTTTCCACAGCGGTGGGATGG	15660
Qy	15917	GCCCTCTTCTCTCCCATCCCTCCCTTCCCTTAGTCCCAACGACCCCAAGCGCTGCT	15976
Db	15661	GCCCTCTTCTCTCCCATCCCTCCCTTCCCTTAGTCCCAACGACCCCAAGCGCTGCT	15720
Qy	15977	TCCTCGGGGCGAGTCCAGGACGCTGCACATCTCCGACTTCAGCTTCTCTATGGTCTTAG	16036

b 15721 TCTTCGGGCGAGTCAGACGCTGCACATCTCCGACTTCAGCTTCCTCATGGTTCTAG 15780
 y 16037 GAAAGGCGAGTTTGGGAAAGTTTGAATTCCTGGGGTTCTGGGGGAAAGGAGGATGTCTG 16096
 b 15781 GAAAGGCGAGTTTGGGAAAGTTTGAATTCCTGGGGTTCTGGGGGAAAGGAGGATGTCTG 15840
 y 16097 TGGGAAGGTCAGATTTCTGGTTCTTAGGGAGGAGTGGGGGTGGGAAGAGACATGGGCTCC 16156
 b 15841 TGGGAAGGTCAGATTTCTGGTTCTTAGGGAGGAGTGGGGGTGGGAAGAGACATGGGCTCC 15900
 y 16157 TGCATCTTCAAAATATAGTTAGGTTGGGCGGTTTCAAGTTCTCTGGAGGAGAGTTTACAG 16216
 b 15901 TGCATCTTCAAAATATAGTTAGGTTGGGCGGTTTCAAGTTCTCTGGAGGAGAGTTTACAG 15960
 y 16217 ATGTGACACTCTCTTGGAGGAGCGGGCGGCAAGTCAGGGCTGTCTGATCCTTAAAGAGA 16276
 b 15961 ATGTGACACTCTCTTGGAGGAGCGGGCGGCAAGTCAGGGCTGTCTGATCCTTAAAGAGA 16020
 y 16277 TGGAGGAAGGGCTGGGATCCCGTTTCCCTGCGTCCCTTAGGGAGGGGCGAGGCTCTGTA 16336
 b 16021 TGGAGGAAGGGCTGGGATCCCGTTTCCCTGCGTCCCTTAGGGAGGGGCGAGGCTCTGTA 16080
 y 16337 CCACTGGGTTCCCAACATGGACTGACCTCTTGGAACTGTGCGCATAGGTGATGTGCGC 16396
 b 16081 CCACTGGGTTCCCAACATGGACTGACCTCTTGGAACTGTGCGCATAGGTGATGTGCGC 16140
 y 16397 GAGCGAGGGGCTGTGATGAGCTTACGCCATCAAGATCTTGAAGAAAGGAGCTGATCCTC 16456
 b 16141 GAGCGAGGGGCTGTGATGAGCTTACGCCATCAAGATCTTGAAGAAAGGAGCTGATCCTC 16200
 y 16457 CAGGACGACGATGTGACCTGACGCTGTGGAGAAACGTTGCTGCGCTTGGGGGCGCG 16516
 b 16201 CAGGACGACGATGTGACCTGACGCTGTGGAGAAACGTTGCTGCGCTTGGGGGCGCG 16260
 y 16517 GGTCTGCGGCGGCGCCACCTTCTACCCAGCTCCACTCCACTTCCAGACCCCGGTA 16320
 b 16261 GGTCTGCGGCGGCGCCACCTTCTACCCAGCTCCACTCCACTTCCAGACCCCGGTA 16380
 y 16577 AGGATGGAGGGGCGGAGGCTGTCTCGGGGCGCTCCCTTACAGTTCTGCAATCTGC 16636
 b 16321 AGGATGGAGGGGCGGAGGCTGTCTCGGGGCGCTCCCTTACAGTTCTGCAATCTGC 16380
 y 16637 GTTGGGATTTCTGAGTTTAGGGCGAGGCAAGAGAACTTTGTGCTCTCAGTTGGGCGAGC 16696
 b 16381 GTTGGGATTTCTGAGTTTAGGGCGAGGCAAGAGAACTTTGTGCTCTCAGTTGGGCGAGC 16440
 y 16697 CAGGCGGATTTCTCTCAGGGGCGTGGCCGGGGGGGCTCTTGGGGGCGTGGCCAG 16756
 b 16441 CAGGCGGATTTCTCTCAGGGGCGTGGCCGGGGGGGCTCTTGGGGGCGTGGCCAG 16500
 y 16757 GCGAAGGACCTATCGGGGCGTGGCCAGGCGAGGGGCTCAAGAGGCGAGGCGCGG 16816
 b 16501 GCGAAGGACCTATCGGGGCGTGGCCAGGCGAGGGGCTCAAGAGGCGAGGCGCGG 16560
 y 16817 TGGAGGGGCTCTCTCGGGGCGTGGCCAGGCGAGGACTCATCGGGGCGTGGCCAGGCA 16876
 b 16561 TGGAGGGGCTCTCTCGGGGCGTGGCCAGGCGAGGACTCATCGGGGCGTGGCCAGGCA 16620
 y 16877 GAGGGGCTTTCTCGGGGCGTGGTCAGGCGGATGAAATCTTTGGGGGCGTGGTTAGAGG 16936
 b 16621 GAGGGGCTTTCTCGGGGCGTGGTCAGGCGGATGAAATCTTTGGGGGCGTGGTTAGAGG 16680
 y 16937 GCGGGCTTTGTTCAGGCGATGGGATCAATTAAGCGGTGGCCAGGACATTTGGCTCCTTG 16996
 b 16681 GCGGGCTTTGTTCAGGCGATGGGATCAATTAAGCGGTGGCCAGGACATTTGGCTCCTTG 16740
 y 16997 GGGGCGGCGAGGCGAGGATATGAATGAGGATATCAAGGCGAGTATCTTCTCGG 17056
 b 16741 GGGGCGGCGAGGCGAGGATATGAATGAGGATATCAAGGCGAGTATCTTCTCGG 16800
 y 17057 AGGGCGTGGTCGGGCGGATGAGCTCTCTCGGGGCGTGGCCAGGCGGTGAGTTCTCGGTG 17116

Db 16801 AGGGCGTGGTCGGGCGGATGAGCTCTCTCGGGGCGTGGCCAGGCGGTGAGTTCTCTCGGTG 16860
 Qy 17117 GCATGGCTGGCCAGGTGAAATGGGTCCTGGGAGGTGCTGCGAAGCGGTTGAGTTCTCTTG 17176
 Db 16861 GCATGGCTGGCCAGGTGAAATGGGTCCTGGGAGGTGCTGCGAAGCGGTTGAGTTCTCTTG 16920
 Qy 17177 GGGCGGTGGCCAGGTGAAATGGGTCCTGGGGGAGTGGCCAGATGCTCTTCTCTCTGGG 17236
 Db 16921 GGGCGGTGGCCAGGTGAAATGGGTCCTGGGGGAGTGGCCAGATGCTCTTCTCTCTGGG 16980
 Qy 17237 AGCTTGGTCTTGAAGTGGCTGTAGCCAGTGTCTCGAAATTTTTCAGAAAGGGGCGACAGTGG 17296
 Db 16981 AGCTTGGTCTTGAAGTGGCTGTAGCCAGTGTCTCGAAATTTTTCAGAAAGGGGCGACAGTGG 17040
 Qy 17297 AGGAGGTGCTTCTAGTGGGCTGCGCCAGAAATGGGCTCCGAGTGCAGGGGTATCATCAC 17356
 Db 17041 AGGAGGTGCTTCTAGTGGGCTGCGCCAGAAATGGGCTCCGAGTGCAGGGGTATCATCAC 17100
 Qy 17357 TTTTGGATTTCTGACTGAAGGACACATCAGAAACAGGACATTTATTTCTTAGGATTTGCGAC 17416
 Db 17101 TTTTGGATTTCTGACTGAAGGACACATCAGAAACAGGACATTTATTTCTTAGGATTTGCGAC 17160
 Qy 17417 TTAGGGCGAGAGTCAAGAACCTGCAAGATTTTAAAGGGGCTGACTTTACTTTCCAGGGG 17476
 Db 17161 TTAGGGCGAGAGTCAAGAACCTGCAAGATTTTAAAGGGGCTGACTTTACTTTCCAGGGG 17220
 Qy 17477 CTCCGAATGAGTGGGCGAGCCACTGGAATTAATAATATATGATGAGCAACTTTGATTTCC 17536
 Db 17221 CTCCGAATGAGTGGGCGAGCCACTGGAATTAATAATATATGATGAGCAACTTTGATTTCC 17280
 Qy 17537 TTTTTTTTTTTTTGAAGGAGTGTAGTCTTTGTCTCCCGAGCTGGAGTGCATGCGCGCA 17596
 Db 17281 TTTTTTTTTTTTTGAAGGAGTGTAGTCTTTGTCTCCCGAGCTGGAGTGCATGCGCGCA 17340
 Qy 17597 TCTCGGCTGACTGCAACTCGGCTCCGGGTTTAAAGAAATTTCTCCGCTCTCAGGCTCCT 17656
 Db 17341 TCTCGGCTGACTGCAACTCGGCTCCGGGTTTAAAGAAATTTCTCCGCTCTCAGGCTCCT 17400
 Qy 17657 GAGTAGCTGGGATTTACAGGCTCCCGCCACACACTCAGCTGATTTTGTATTTTGTAGTAG 17716
 Db 17401 GAGTAGCTGGGATTTACAGGCTCCCGCCACACACTCAGCTGATTTTGTATTTTGTAGTAG 17460
 Qy 17717 AGACCGGGTTTTCGCCACGTTTGGCCAGCTGGTCTGGAATCTCTGACCTCAGGTGATCCAC 17776
 Db 17461 AGACCGGGTTTTCGCCACGTTTGGCCAGCTGGTCTGGAATCTCTGACCTCAGGTGATCCAC 17520
 Qy 17777 CCGCTTCGGCTCCCAAGTCTGGGATTTACGGCTGACGCCACGACCCAGCTGCGAAC 17836
 Db 17521 CCGCTTCGGCTCCCAAGTCTGGGATTTACGGCTGACGCCACGACCCAGCTGCGAAC 17580
 Qy 17837 TTTGATTTTAGTAGGAAGCCAGAAATTCATCTGTGTGAGTGGCTGTGGAAAGAGATT 17896
 Db 17581 TTTGATTTTAGTAGGAAGCCAGAAATTCATCTGTGTGAGTGGCTGTGGAAAGAGATT 17640
 Qy 17897 TTGTGTTCGGATTTTCGAGCGAAATGGTGGGCTTCAAGTTCTCAATTTCTGAGAGGCGGG 17956
 Db 17641 TTGTGTTCGGATTTTCGAGCGAAATGGTGGGCTTCAAGTTCTCAATTTCTGAGAGGCGGG 17700
 Qy 17957 GCCAAGACAGTGGTCTGATAGTTGGCGGTGCTGCGGCGGTGGAGATTTCTGAGGTAGCA 18016
 Db 17701 GCCAAGACAGTGGTCTGATAGTTGGCGGTGCTGCGGCGGTGGAGATTTCTGAGGTAGCA 17760
 Qy 18017 GGATTAGCACTTAGGGGCTCCCGAGGATGTGGCTAGGTGCTCTGAATTTCTCGTTGGG 18076
 Db 17761 GGATTAGCACTTAGGGGCTCCCGAGGATGTGGCTAGGTGCTCTGAATTTCTCGTTGGG 17820
 Qy 18077 TGCATCTGGAACCTTCCAGCTGTCTGATGATCAGGAAAGAAATTTCTCTACTCTGG 18136
 Db 17821 TGCATCTGGAACCTTCCAGCTGTCTGATGATCAGGAAAGAAATTTCTCTACTCTGG 17880
 Qy 18137 GTAGATGGATCCGCTCTTAAGCCCATGCACTTCTCCGAGGACCGCTGTATTTCTGTA 18196
 Db 17881 GTAGATGGATCCGCTCTTAAGCCCATGCACTTCTCCGAGGACCGCTGTATTTCTGTA 17940

18197	TTGGAGTACGTCACCGGGGAGACTTGATGTACCAATTTCAACAGCTTGGCAAGTTTAAGG	18256	19277	TCAGAGTTTGAGACCCAGCCTGGCCAAACATGGTGAAACCTCATCTCTAACAAAAATTACAC	19336
17941	TTGGAGTACGTCACCGGGGAGACTTGATGTACCAATTTCAACAGCTTGGCAAGTTTAAGG	18000	Db	TCAGAGTTTGAGACCCAGCCTGGCCAAACATGGTGAAACCTCATCTCTAACAAAAATTACAC	19080
18257	AGCCCCATGACGCTGAGTCTTCGCCCCAAACAGAGAAATGGTCGGGGTGGTGGAAAGGGGGCAG	18316	19337	AAATTAGCCGGCGCTGGTGGCATGGCCCTGTAATCCAGAGCTATTTCGGGAGGCTGAGGGCAG	19396
18001	AGCCCCATGACGCTGAGTCTTCGCCCCAAACAGAGAAATGGTCGGGGTGGTGGAAAGGGGGCAG	18060	Db	AAATTAGCCGGCGCTGGTGGCATGGCCCTGTAATCCAGAGCTATTTCGGGAGGCTGAGGGCAG	19140
18317	GATCCAGCACTGACCTTCTGAGCTGCCACCCACCCCGCTCTCCAGGTTCTACGGCGCA	18376	19397	GAGAAATCGCTTGAACCCGGGAGGCGGAGTTGCACTGAGCTGAGATCACACCACTGCACT	19456
18061	GATCCAGCACTGACCTTCTGAGCTGCCACCCACCCCGCTCTCCAGGTTCTACGGCGCA	18120	Db	GAGAAATCGCTTGAACCCGGGAGGCGGAGTTGCACTGAGCTGAGATCACACCACTGCACT	19200
18377	GAAATCGCTATCGGCTCTCTTCTTCAATCAGGCGATCATCTACAGGTTGAGCAGCC	18436	19457	CCAGCTGGGTGACAGAGCATPACTTCATACTCATCTCAAAAAAATAAAAAA	19516
18121	GAAATCGCTATCGGCTCTCTTCTTCAATCAGGCGATCATCTACAGGTTGAGCAGCC	18180	Db	CCAGCTGGGTGACAGAGCATPACTTCATACTCATCTCAAAAAAATAAAAAA	19260
18437	CCAGGAATTTCCGTGGAGAAATCACGCCCTCGGAAAGGGAATTTGAATATGTGGCT	18496	19517	GCCGGTGCAGTGGCTCACACCTGTAAATTCAGACATTTGGGAGGCTGAGGCGGGCGATC	19576
18181	CCAGGAATTTCCGTGGAGAAATCACGCCCTCGGAAAGGGAATTTGAATATGTGGCT	18240	Db	GCCGGTGCAGTGGCTCACACCTGTAAATTCAGACATTTGGGAGGCTGAGGCGGGCGATC	19320
18497	CTAGACTGTGAATCAACACTTCTTCTTCAATCAGGCGATCATCTACAGGTTGAGCAGCC	18556	19577	ACAAGTCCAGAGTTTGAGACCCAGCCTGATTAACATATGGTGAAACTCCATCTCTATAAAA	19636
18241	CTAGACTGTGAATCAACACTTCTTCTTCAATCAGGCGATCATCTACAGGTTGAGCAGCC	18300	Db	ACAAGTCCAGAGTTTGAGACCCAGCCTGATTAACATATGGTGAAACTCCATCTCTATAAAA	19380
18557	GACCTGAAGTGAACATGTGATGCTGAGTGTGAGGAGACATCAAGATCACTGACTTT	18616	19637	ATACAAAAATTTAGCCAGCGTGGTGGCGGTGCTGTAGTCCAGCTACTTGGGAGGCTG	19696
18301	GACCTGAAGTGAACATGTGATGCTGAGTGTGAGGAGACATCAAGATCACTGACTTT	18360	Db	ATACAAAAATTTAGCCAGCGTGGTGGCGGTGCTGTAGTCCAGCTACTTGGGAGGCTG	19440
18617	GGCATGTGAAGAGAACTCTTCCCGGAGACGACCAACCCGACCTTCTCGCGGACCCCG	18676	19697	AGGCAGAGAAATTTAGTGAACCCGGGAGTGGAGGTTGCAGTGGAGCTGAGATCGGCCAC	19756
18361	GGCATGTGAAGAGAACTCTTCCCGGAGACGACCAACCCGACCTTCTCGCGGACCCCG	18420	Db	AGGCAGAGAAATTTAGTGAACCCGGGAGTGGAGGTTGCAGTGGAGCTGAGATCGGCCAC	19500
18677	GACTACATGCCCCGAGGTAAACCCCAACCTGCTGCTGTGTCAGCTTTGAGATCCCT	18736	19757	TGCATCTCAGTCTGGGCAACAGAGTGACCCCTGTCTCAAAAAAATAAAAAA	19816
18421	GACTACATGCCCCGAGGTAAACCCCAACCTGCTGCTGTGTCAGCTTTGAGATCCCT	18480	Db	TGCATCTCAGTCTGGGCAACAGAGTGACCCCTGTCTCAAAAAAATAAAAAA	19560
18737	TAGAGGTTGATGCTGATGCTGAGTGTGAGTGTGAGGCTGAGGCTGAGGCTGAGGCTG	18796	19817	AGAAAAAGGCGAGGTGAGATCCCTTAAGTCTTGGGAGAGCAGATGCTGCTCTATGATTA	19876
18481	TAGAGGTTGATGCTGATGCTGAGTGTGAGTGTGAGGCTGAGGCTGAGGCTGAGGCTG	18540	Db	AGAAAAAGGCGAGGTGAGATCCCTTAAGTCTTGGGAGAGCAGATGCTGCTCTATGATTA	19620
18797	TGATGAGTTGTGGCTTTTACACAGCCAGTCTGCTCCAGCCTCCAGCAGCAGGTGAGC	18856	19877	TTTAAAGTGGGTGGGTGATTAACCCGACTTTCTTAAAGGGGTGGGCTGATGTTCTGAATG	19936
18541	TGATGAGTTGTGGCTTTTACACAGCCAGTCTGCTCCAGCCTCCAGCAGCAGGTGAGC	18600	Db	TTTAAAGTGGGTGGGTGATTAACCCGACTTTCTTAAAGGGGTGGGCTGATGTTCTGAATG	19680
18857	TTGGCACTGAGCTGAGGTGGGCGCAGCTGGGTCTCTAAATAGGTAAAGTGGGCGCA	18916	19937	TACGTATAGATGGAATAAAGCAGCATGCCCTGTAGTCCAGCTACTTGGGAGGATGCTCTGA	19996
18601	TTGGCACTGAGCTGAGGTGGGCGCAGCTGGGTCTCTAAATAGGTAAAGTGGGCGCA	18660	Db	TACGTATAGATGGAATAAAGCAGCATGCCCTGTAGTCCAGCTACTTGGGAGGATGCTCTGA	19740
18917	CCTGTGGGTGAAATGTTCCAGGAGTGGGACAGCTCGTAGGAATTCAGTAGGACCTG	18976	19997	CTCGTGGCCAAATTAATCAATGTCAAGTATCAAAAACTGGCTGGTAAATCAGAAATCATCT	20056
18661	CCTGTGGGTGAAATGTTCCAGGAGTGGGACAGCTCGTAGGAATTCAGTAGGACCTG	18720	Db	CTCGTGGCCAAATTAATCAATGTCAAGTATCAAAAACTGGCTGGTAAATCAGAAATCATCT	19800
18977	ACCCCTGGATCTTCTGAGAGGGGCGAGAGTATTTCTAGTGTACTCTGAGTGGGTGGCC	19036	20057	GTAGAAAAATTTGAAAACTGAGGCCAGACATGGTGGCTCATGCCCTGAATCCAGCACTTT	20116
18721	ACCCCTGGATCTTCTGAGAGGGGCGAGAGTATTTCTAGTGTACTCTGAGTGGGTGGCC	18780	Db	GTAGAAAAATTTGAAAACTGAGGCCAGACATGGTGGCTCATGCCCTGAATCCAGCACTTT	19860
19037	TGTCCCTGCGCAACACTGAAACATGTCGGGACTATCTTGAATACTTTAAACTGGGCGAG	19096	19997	GGGAAGCTGAGGCGAGGATCACTTTGAGGTGAGGAAATTCAGAACCCAGCTAGCCAAAT	20176
18781	TGTCCCTGCGCAACACTGAAACATGTCGGGACTATCTTGAATACTTTAAACTGGGCGAG	18840	Db	GGGAAGCTGAGGCGAGGATCACTTTGAGGTGAGGAAATTCAGAACCCAGCTAGCCAAAT	19920
19097	GCTCTCCCTGGAGTATTCAGTGGAGTGGAGCTTATTTCTGTGTTGTAGTGTCTCT	19156	20177	GGTGAAACCCCGTCTCTACTAAAAATAAAAAATTAAGTGGAGACATGGTGGTGGCTG	20236
18841	GCTCTCCCTGGAGTATTCAGTGGAGTGGAGCTTATTTCTGTGTTGTAGTGTCTCT	18900	Db	GGTGAAACCCCGTCTCTACTAAAAATAAAAAATTAAGTGGAGACATGGTGGTGGCTG	19980
19157	GATGTAAGTGTACTGGAATTTCTGTGCTGCAATTTTCAAGAGGCGAGGATCAGCTGGCGC	19216	20237	TCACCCAGCTACTCAGGAGCTGAGGAGGAGGATCACTTGAACCCAGGAGGTGGAGT	20296
18901	GATGTAAGTGTACTGGAATTTCTGTGCTGCAATTTTCAAGAGGCGAGGATCAGCTGGCGC	18960	Db	TCACCCAGCTACTCAGGAGCTGAGGAGGAGGATCACTTGAACCCAGGAGGTGGAGT	20040
19217	GGTGGCTCACACCTGTAAATCCAGCACTTTGGAGGCTGAGGAGGCTGAGTCACTTTGAG	19276	19981	TGCAAGCTGAGGCGAGGATGAGGAGGAGGATCACTTGAACCCAGGAGGTGGAGT	20356
18961	GGTGGCTCACACCTGTAAATCCAGCACTTTGGAGGCTGAGGAGGCTGAGTCACTTTGAG	19020	Db	TGCAAGCTGAGGCGAGGATGAGGAGGAGGATCACTTGAACCCAGGAGGTGGAGT	20100
			20357	TCAAAAAAGAAAAAGATAAGAAAAATTTGAAAACTACACACATATTTCTGACTCTGACAC	20416

QY	22577	TAGCCTCCCTTCGATGGGAGGACGAGGAGGCTGTTTCAGGGCCATCATGGAACAACT	22636
DB	22321	TAGCCTCCCTTCGATGGGAGGAGGAGGAGCTGTTTCAGGGCCATCATGGAACAACT	22380
QY	22637	GTCACTACCCCAAGTCGCTTTCCCGGGAAGCCGCTGGCCATCTGCAAGGGGGTGAGAGCC	22696
DB	22381	GTCACTACCCCAAGTCGCTTTCCCGGGAAGCCGCTGGCCATCTGCAAGGGGGTGAGAGCC	22440
QY	22697	CCCTGACTCCAGCTTCTCAGGCTCAACAACACACCCCATTCGTCTCTGTGCGCTA	22756
DB	22441	CCCTGACTCCAGCTTCTCAGGCTCAACAACACACCCCATTCGTCTCTGTGCGCTA	22500
QY	22757	TTAGAAAATGCTCCCATTCCTGAAGTCACTTACTTCCATCTGTTGGAAGAAGTTGATAT	22816
DB	22501	TTAGAAAATGCTCCCATTCCTGAAGTCACTTACTTCCATCTGTTGGAAGAAGTTGATAT	22560
QY	22817	GATGATAGGTTTGTAGAAACAATGATTTCCAGCCCTGTTGCCACAGAGGCTCGAGATG	22876
DB	22561	GATGATAGGTTTGTAGAAACAATGATTTCCAGCCCTGTTGCCACAGAGGCTCGAGATG	22620
QY	22877	GCCTCTGTCTCATCTTCTCTGTGACTCCCACTCCCAAGCTCCCTGCTTGGCAGGAAGTGC	22936
DB	22621	GCCTCTGTCTCATCTTCTCTGTGACTCCCACTCCCAAGCTCCCTGCTTGGCAGGAAGTGC	22680
QY	22937	TGAAAGTCCAGGGTCTGTCTGTCTAGAACTGGGTGGGTGAGTAAACCCAACTTCCTGC	22996
DB	22681	TGAAAGTCCAGGGTCTGTCTGTCTAGAACTGGGTGGGTGAGTAAACCCAACTTCCTGC	22740
QY	22997	AGCTTTTCTCTCTGTGTAACCTTTGGGTGAGTCAACCAAACTTTGTGAGCTTAACTCTCTT	23056
DB	22741	AGCTTTTCTCTCTGTGTAACCTTTGGGTGAGTCAACCAAACTTTGTGAGCTTAACTCTCTT	22800
QY	23057	CAGGGGTTATGAGGTTGACAGAAAGAAAGCACTTGGGCCATAGCAGATTTTCAGGCCCAT	23116
DB	22801	CAGGGGTTATGAGGTTGACAGAAAGAAAGCACTTGGGCCATAGCAGATTTTCAGGCCCAT	22860
QY	23117	GTACGACCTTCTGGGTCTAGTCTCTCTCTGCACTCTCCCTGACAGTCTCTCTGGTTTC	23176
DB	22861	GTACGACCTTCTGGGTCTAGTCTCTCTCTGCACTCTCCCTGACAGTCTCTCTGGTTTC	22920
QY	23177	TGTCCTATGCTCCCTCCATCTGATACGATGGGGCTCTCTGTGTTTCTTCTTCTTCTC	23236
DB	22921	TGTCCTATGCTCCCTCCATCTGATACGATGGGGCTCTCTGTGTTTCTTCTTCTTCTC	22980
QY	23237	TGTGTCTCTCTCTGATCTCTGTCTACACTTTTGGGCTTGTGTCAACCCCTTACCCCC	23296
DB	22981	TGTGTCTCTCTCTGATCTCTGTCTACACTTTTGGGCTTGTGTCAACCCCTTACCCCC	23040
QY	23297	CATCTCTGCTCCCTCTCTGTCTACATACACACAGCTACATCTCACCCCTCTCTC	23356
DB	23041	CATCTCTGCTCCCTCTCTGTCTACATACACACAGCTACATCTCACCCCTCTCTC	23100
QY	23357	CTGCTGGCTTTCTGCTCCCTCTCTCTGCTCTCTGCTCTCTGCTCTCTCTCTCTCTCT	23416
DB	23101	CTGCTGGCTTTCTGCTCCCTCTCTCTGCTCTCTGCTCTCTGCTCTCTCTCTCTCTCT	23160
QY	23417	CTCCCTCTGGGTGTGTCTCTCTGCTCTCTATCTCTCTCTCTCTCTCTCTCTCTCTCT	23476
DB	23161	CTCCCTCTGGGTGTGTCTCTCTGCTCTCTATCTCTCTCTCTCTCTCTCTCTCTCTCT	23220
QY	23477	CTGGGTCTCTCTCTCTCTCTCTCTCTCTGATTTCTGCTCTCTCTCTCTCTCTCTCTCT	23536
DB	23221	CTGGGTCTCTCTCTCTCTCTCTCTCTCTGATTTCTGCTCTCTCTCTCTCTCTCTCTCT	23280
QY	23537	TACCAACCTCTGAAATTTCTATTTCCCTCTCTCTGCTCTCTGCTCTCTCTCTCTCTCT	23596
DB	23281	TACCAACCTCTGAAATTTCTATTTCCCTCTCTCTGCTCTCTGCTCTCTCTCTCTCTCT	23340
QY	23597	TCCCTCCCTCTTCCCT	23656
DB	23341	TCCCTCCCTCTTCCCT	23400

QY	23657	CTGTCT	23716
DB	23401	CTGTCT	23460
QY	23717	CCCTTCT	23776
DB	23461	CCCTTCT	23520
QY	23777	TGTTCTGTTTCTCTGTGTGTCTCTGGGTATGAAATTTCAATCTCTCTCTCTCTCTCTCT	23836
DB	23521	TGTTCTGTTTCTCTGTGTGTCTCTGGGTATGAAATTTCAATCTCTCTCTCTCTCTCTCT	23580
QY	23837	CATGTATCT	23896
DB	23581	CATGTATCT	23640
QY	23897	GTCT	23956
DB	23641	GTCT	23700
QY	23957	TCTCTGTCT	24016
DB	23701	TCTCTGTCT	23760
QY	24017	CT	24076
DB	23761	CT	23820
QY	24077	CT	24136
DB	23821	CT	23880
QY	24137	TCTCTCGGATCTCATGCTGTGTCTCTTGGTTCTCTCATCTGCTGTCTCTGTCTCTCTCT	24196
DB	23881	TCTCTCGGATCTCATGCTGTGTCTCTTGGTTCTCTCATCTGCTGTCTCTGTCTCTCTCT	23940
QY	24197	CTCTGGGTCTACCTGTCTGGGCTCTCTGTCTGTGTGTGTGTGTGTGTGTGTGTGTGTTC	24256
DB	23941	CTCTGGGTCTACCTGTCTGGGCTCTCTGTCTGTGTGTGTGTGTGTGTGTGTGTGTGTTC	24000
QY	24257	CACAGTTCTCTGACCAAGCACCCAGGAGCGCTGGGCTCAGGCGCTGATGGGGACCTA	24316
DB	24001	CACAGTTCTCTGACCAAGCACCCAGGAGCGCTGGGCTCAGGCGCTGATGGGGACCTA	24060
QY	24317	CCATCCGTGCACATGGCTTTTCCGCTGGATTGACTGGGAGCGCTGGAACGATTGGAGA	24376
DB	24061	CCATCCGTGCACATGGCTTTTCCGCTGGATTGACTGGGAGCGCTGGAACGATTGGAGA	24120
QY	24377	TCCCGCTCTCTTTTTCAGACCCCGCTCAGTCACTCTCAGGCAACAAACCTCTGTCTTC	24436
DB	24121	TCCCGCTCTCTTTTTCAGACCCCGCTCAGTCACTCTCAGGCAACAAACCTCTGTCTTC	24180
QY	24437	CTGAAGGGGTGGGGTTCCTCTGGGCTCAATATACCTGTATGTGGGGTGGGGTTCCTCTC	24496
DB	24181	CTGAAGGGGTGGGGTTCCTCTGGGCTCAATATACCTGTATGTGGGGTGGGGTTCCTCTC	24240
QY	24497	TGCAGAGCCCTCCGCCCCCAACAAAGAGGCTGACAGACCATGAAAGCATGAAATAGAGAT	24556
DB	24241	TGCAGAGCCCTCCGCCCCCAACAAAGAGGCTGACAGACCATGAAAGCATGAAATAGAGAT	24300
QY	24557	TCTGCAGGAGACAGGAGATGAGACTGGGGTACACAGAGGAGACCCCGAGGAGCCCTCGGA	24616
DB	24301	TCTGCAGGAGACAGGAGATGAGACTGGGGTACACAGAGGAGACCCCGAGGAGCCCTCGGA	24360
QY	24617	CTGTCTTTAACTTTTCT	24676
DB	24361	CTGTCTTTAACTTTTCT	24420
QY	24677	ACAAGTTCTTTCAGCGGGCGGCGCCAGCTGACCTCTCCAGACCCCTTCCAGACCCCTTCC	24736
DB	24421	ACAAGTTCTTTCAGCGGGCGGCGCCAGCTGACCTCTCCAGACCCCTTCCAGACCCCTTCC	24480
QY	24737	GCATCGACGAGCGGATTTTCCAGGGCTTCACTACGTGGAACCCCGGACTTCTGTGACCCGG	24796

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50 GAGCCACAAGTTACCGCTCGCTTCTTCAAGCAGCCACCTTCTGCAGCCACTGCACCC

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Db	29180	AGCTTAGGAGATGCTGAGAGGAGACCCAGGGAAGTCCCAAGTACACTTGGCACACATGTG	29239
Qy	2821	CGTGCATGTACAGATCCCTCTGTTCATCACAGATGTGCAGCAGCCAGACAGACACACAGCCCTC	2880
Db	29240	CGTGCATGTACAGATCCCTCTGTTCATCACAGATGTGCAGCAGCCAGACAGACACACAGCCCTC	29299
Qy	2881	TCCCCACCCCTCTCTCTCCATCAGAGGCTCACAGACCAAGTCAACCCCTGAGTGCCCAAT	2940
Db	29300	TCCCCACCCCTCTCTCTCCATCAGAGGCTCACAGACCAAGTCAACCCCTGAGTGCCCAAT	29359
Qy	2941	CCCGTCCCTTTCTGCTTTATCTCTGAGCCTCAGTTTCTCTCTATATAAATGGGGCTG	3000
Db	29360	CCCGTCCCTTTCTGCTTTATCTCTGAGCCTCAGTTTCTCTCTATATAAATGGGGCTG	29419
Qy	3001	ATCATCTAGCATGACCAACAGACAGTGTACAGTACAGGAGCACTTCTGTATCATGCACT	3060
Db	29420	ATGATCTAGCATGACCAACAGACAGTGTACAGTACAGGAGCACTTCTGTATCATGCACT	29479
Qy	3061	GTCCAATAGGCAAGCCACAGCTCCATGTAGCCAGTGAAGCACTTGAACAGGGCGACTGTG	3120
Db	29480	GTCCAATAGGCAAGCCACAGCTCCATGTAGCCAGTGAAGCACTTGAACAGGGCGACTGTG	29539
Qy	3121	GCTGAGGATTAGAAATTCATTTCTGCTCATTTGATGAAATGGCTTAAATTTTTTTTTAT	3180
Db	29540	GCTGAGGATTAGAAATTCATTTCTGCTCATTTGATGAAATGGCTTAAATTTTTTTTTAT	29599
Qy	3181	TTTTTATTTTTGAGAGGAGTCCGCTCTGTGCCCCAGCTGGAGTGCAGTGGCGCAGTC	3240
Db	29600	TTTTTATTTTTGAGAGGAGTCCGCTCTGTGCCCCAGCTGGAGTGCAGTGGCGCAGTC	29659
Qy	3241	TCAGCTCAATGCAACTTCCGTTTCCAGGTTTCAAGCAATTTCTTACCTCAGCCCTCCTGA	3300
Db	29660	TCAGCTCAATGCAACTTCCGTTTCCAGGTTTCAAGCAATTTCTTACCTCAGCCCTCCTGA	29719
Qy	3301	GTAGCTGGGACTACAGGCGCATGCCACACACCCCGCTAAATTTTTTTGTATTTTAGTA	3360
Db	29720	GTAGCTGGGACTACAGGCGCATGCCACACACCCCGCTAAATTTTTTTGTATTTTAGTA	29779
Qy	3361	GAGATGGGGTTTACCATGTTGGCAGGCTGTCTCGAACTCTCGACCTTGTGATCCACC	3420
Db	29780	GAGATGGGGTTTACCATGTTGGCAGGCTGTCTCGAACTCTCGACCTTGTGATCCACC	29839
Qy	3421	CGCCTCGGCTCCCAAAGTTGGGATTAAGCGGTGAGCCACCGCGCCCGGCGAGAACTG	3480
Db	29840	CGCCTCGGCTCCCAAAGTTGGGATTAAGCGGTGAGCCACCGCGCCCGGCGAGAACTG	29899
Qy	3481	ACTTAAATTTAAACAGCCACATGTAGTGTGGCCACCAAAATGGGACACACATCTGG	3540
Db	29900	ACTTAAATTTAAACAGCCACATGTAGTGTGGCCACCAAAATGGGACACACATCTGG	29959
Qy	3541	ACACTTCCAGGCTTCTTTTGAAGTCAGGTGGGTTTCAGAGTTTCGCCAGGGTTTGACACA	3600
Db	29960	ACACTTCCAGGCTTCTTTTGAAGTCAGGTGGGTTTCAGAGTTTCGCCAGGGTTTGACACA	30019
Qy	3601	AGATCGGAGACAGTTTATGATGTACAGATGAGAGAGGAGGAGAGAGAGATCCAC	3660
Db	30020	AGATCGGAGACAGTTTATGATGTACAGATGAGAGAGGAGGAGAGAGAGATCCAC	30079
Qy	3661	AGAACTCAATGAGGCGTTTACCACTCTCAGCTGAAATAAACAAGAGTCTACATAGAA	3720
Db	30080	AGAACTCAATGAGGCGTTTACCACTCTCAGCTGAAATAAACAAGAGTCTACATAGAA	30139
Qy	3721	GATGTGATTCATAGAACATATATTTGAGCAGCACTGTCTACAGCAGCCTGTATGTGATTG	3780
Db	30140	GATGTGATTCATAGAACATATATTTGAGCAGCACTGTCTACAGCAGCCTGTATGTGATTG	30199
Qy	3781	ATGACCCCTCTGCTCACTCAGCTCCGACCAACACACAGATAGTCTGTGATGCCAGT	3840
Db	30200	ATGACCCCTCTGCTCACTCAGCTCCGACCAACACACAGATAGTCTGTGATGCCAGT	30259
Qy	3841	GCTCAATGGGTACACTCATCAAGATTTTTTTTTTTTGTGTTTTTGTGCTGTAAATCCAGCTAC	3900
Db	30260	GCTCAATGGGTACACTCATCAAGATTTTTTTTTTTTGTGTTTTTGTGCTGTAAATCCAGCTAC	30319

Qy	3901	TGGGAGGCTGAGCAGCAATTTGCTTGAACCTTGAGCGGCGAGAGTTTGCAGTGAAGCAAGT	3960
Db	30320	TGGGAGGCTGAGCAGCAATTTGCTTGAACCTTGAGCGGCGAGAGTTTGCAGTGAAGCAAGT	30379
Qy	3961	CACGCCACTGCACTCCAGCCTGGGTGACAGAGCAAGACTTTGTCTTTGGAAGAAAAA	4020
Db	30380	CACGCCACTGCACTCCAGCCTGGGTGACAGAGCAAGACTTTGTCTTTGGAAGAAAAA	30439
Qy	4021	AGATT	4080
Db	30440	AGATT	30499
Qy	4081	ACTCTGTCAACACAGCCTGGAGTGCATCTGGTCAATCTTTGGTTCACTGCAACCTCTACCTC	4140
Db	30500	ACTCTGTCAACACAGCCTGGAGTGCATCTGGTCAATCTTTGGTTCACTGCAACCTCTACCTC	30559
Qy	4141	CCAGGTTCAAGCGGATTTCTCATGCCCTCAGCCTCCCGAGTAGCTGGGACTAGAACAGGCATG	4200
Db	30560	CCAGGTTCAAGCGGATTTCTCATGCCCTCAGCCTCCCGAGTAGCTGGGACTAGAACAGGCATG	30619
Qy	4201	AGCCACATGAGCCCGGCTAAATTTTTTATTTTTTAGTAGACAGGGTTTTCATGCTGGCCA	4260
Db	30620	AGCCACATGAGCCCGGCTAAATTTTTTATTTTTTAGTAGACAGGGTTTTCATGCTGGCCA	30679
Qy	4261	AGCTGGTCTTCTCTCCTGACCTCAGTGCATCCACCACCTCGGCCCTCCCAAGTGTGGGA	4320
Db	30680	AGCTGGTCTTCTCTCCTGACCTCAGTGCATCCACCACCTCGGCCCTCCCAAGTGTGGGA	30739
Qy	4321	TTACAGGCGTGAGCCACCGCACCCAGCGGATTTTTTGGGGTTTTTTTGAGACAGGGTCCAC	4380
Db	30740	TTACAGGCGTGAGCCACCGCACCCAGCGGATTTTTTGGGGTTTTTTTGAGACAGGGTCCAC	30799
Qy	4381	TCTGTCACTAGACTGAGGTACAGTGTGGATCATAGTCTACTGACGCTTGAATTTCTC	4440
Db	30800	TCTGTCACTAGACTGAGGTACAGTGTGGATCATAGTCTACTGACGCTTGAATTTCTC	30859
Qy	4441	CAGGCTCAAGTGTCTCTCTCGCCAGCTTCTCAAGTGTGGGACTATAGGCAAGGCC	4500
Db	30860	CAGGCTCAAGTGTCTCTCTCGCCAGCTTCTCAAGTGTGGGACTATAGGCAAGGCC	30919
Qy	4501	ACAACACTAGCTAAATTAAGAAAAAATTTTTTTGTAGAGATGGAGTCTCACTACTATAT	4560
Db	30920	ACAACACTAGCTAAATTAAGAAAAAATTTTTTTGTAGAGATGGAGTCTCACTACTATAT	30979
Qy	4561	TGCCAGGCTGGTCTTCAACTCTCTGGTCTCACTCGATTCTCTCGCTCAGGCTCCCAAA	4620
Db	30980	TGCCAGGCTGGTCTTCAACTCTCTGGTCTCACTCGATTCTCTCGCTCAGGCTCCCAAA	31039
Qy	4621	TGATGGGATTAAGCGGTGAGCCACTGCACCTGGCCTCAAGTATTTTGTATACAGATAG	4680
Db	31040	TGATGGGATTAAGCGGTGAGCCACTGCACCTGGCCTCAAGTATTTTGTATACAGATAG	31099
Qy	4681	GTGGGATCCACACAGCTTATTTGGTATTTTTCCTGTATCTGTGTTTGAATCCCA	4740
Db	31100	GTGGGATCCACACAGCTTATTTGGTATTTTTCCTGTATCTGTGTTTGAATCCCA	31159
Qy	4741	GCTCCACACTTTTTTGGTCTGTGACATTTTCTGAGTAAATTTACCTCTCTGCACTTGT	4800
Db	31160	GCTCCACACTTTTTTGGTCTGTGACATTTTCTGAGTAAATTTTACCTCTCTGCACTTGT	31219
Qy	4801	GAATTCCTTGTAAAGTGGAGATGATTAATATGCTCACTATGGATTTGTTTGAAGAT	4860
Db	31220	GAATTCCTTGTAAAGTGGAGATGATTAATATGCTCACTATGGATTTGTTTGAAGAT	31279
Qy	4861	TTAGTGAAGTGAAGTGGGATTTCTGACATAGCAAGAGGCCAAATATTTATTTT	4920
Db	31280	TTAGTGAAGTGAAGTGGGATTTCTGACATAGCAAGAGGCCAAATATTTATTTT	31339
Qy	4921	TTATTTCTTGTAAATTTATTTATGACCAATGAGGAAACGAGTGAATAGTGAGAGGAG	4980
Db	31340	TTATTTCTTGTAAATTTATTTATGACCAATGAGGAAACGAGTGAATAGTGAGAGGAG	31399

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 Db |||||
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 Db |||||
 QY 10681 CTGGCTCCAGCAGTGGCACACACACACACACACACACACACACACACACACACAC 10740
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 QY 37220 TTATATCTACTCTTCT 37279
 Db |||||
 QY 10861 TTCCAAATGCTTGTGCT 10920
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 Db |||||

37940	AGGTAGGGACACAGTCCACAGATACCTTAAATAACAGGAAGATGTGCTAAATTAGAGGTAG	37999
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DB	CCAGGGCACTGAAGAGGCCCTAAACGAGAGGCACTAATCCAGCCTCGGGAGAGGCTGGTCAGG	38000
QY	GAGGACTTCCCTCAGGAGGTGACCGCTGAATTGAATTCCTGAGAGTTTTTTAAAAATTTTTTA	11641
DB	GAGGACTTCCCTCAGGAGGTGACCGCTGAATTGAATTCCTGAGAGTTTTTTAAAAATTTTTTA	38060
QY	ATTATATTTTTATTTTTATTTTTATTTTTATTTCTGTCGCCAGAGCTGGAGTGCATCGCA	11700
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DB	CAATCTCGCCTCACTGCAACCTCCAGCTCCCGGTTCAAGCAATTCCTCTGGCCTCAGCCT	38239
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QY	TAGTAGAGATGGGATTTGCGCATGTTGGCCAGAGCTGATCTCAAACTCCAAACTCAGGTG	11940
DB	TAGTAGAGATGGGATTTGCGCATGTTGGCCAGAGCTGATCTCAAACTCCAAACTCAGGTG	38359
QY	ATCCGGCTCGCTTGGCTCCCAAAGTGTGGGATTAACAGGCATGAGCACCTGGGCCCGAC	12000
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DB	TTTGTATTTTTAGTAGAGATGGGTTTTACCGTGTAGCCAGATGGTCTCGATCTCCTG	38659
QY	ACCTGGTGTATCACCGCCTCAGCCTCCCAAAGTGTGGGATTTACAGGCGTGAACACCA	12300
DB	ACCTGGTGTATCACCGCCTCAGCCTCCCAAAGTGTGGGATTTACAGGCGTGAACACCA	38719
QY	CACCCAGCGGATCTTGAGTTTTTAAAAATCTATCAAGCATGATCATCTTAATCTCTCCA	12360
DB	CACCCAGCGGATCTTGAGTTTTTAAAAATCTATCAAGCATGATCATCTTAATCTCTCCA	38779
QY	TTCAATTCATCTCACTCACTGAATATCCTCTTTTCTTTCTTTCTTTCTTTCTTTT	12420
DB	TTCAATTCATCTCACTCACTGAATATCCTCTTTTCTTTCTTTCTTTCTTTCTTTT	38839
QY	TTGAGACAGATCTCTGTTTTGTGACCCAGGTTGGAGTGCAGTGATGCGAGTCTCAGCTCAC	12480
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QY	TGCAACCTCTGCCTCCAGATTCAGTGATTTCTCTGCTCAGCCTCTGAGTAGTTGGG	12540
DB	TGCAACCTCTGCCTCCAGATTCAGTGATTTCTCTGCTCAGCCTCTGAGTAGTTGGG	38959
QY	ATTACAGGAGCGCACCACTGGCTAAATTTTTGTATTTTTTAGTAGAGATGGGGTTT	12600
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QY	CGACATGTTGGCCAGGCTGGTCTCGAATCTCTGACCTCAAGTGATCCACCCGCTTGGCC	12660
DB	CGACATGTTGGCCAGGCTGGTCTCGAATCTCTGACCTCAAGTGATCCACCCGCTTGGCC	39079

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DB	39080	TCCCAAAGCGCTGAGANTTAGAGCGGTGAGCGACCA	CGCCGAGACGAATACCCATTTTCTTA	39139
QY	12721	GGGTGCTATAAGCCAGGCCCTGTTCTGGGAATAGAA	TCAAGGCCCAATCCCTTGTTGGAGCTC	12780
DB	39140	GGGTGCTATAAGCCAGGCCCTGTTCTGGGAATAGAA	TCAAGGCCCAATCCCTTGTTGGAGCTC	39199
QY	12781	TTCTTTCTAGTGGAGACAAGAGTTTACAACCCAGACA	ATTCACAACGAGGAGCAATTCGTGCT	12840
DB	39200	TTCTTTCTAGTGGAGACAAGAGTTTACAACCCAGACA	ATTCACAACGAGGAGCAATTCGTGCT	39259
QY	12841	GTAATGGAGACAGCCTCAGGCACCTGGGCGTCCCT	GGCCACAGCCTGAGTCAGAGGAAGCT	12900
DB	39260	GTAATGGAGACAGCCTCAGGCACCTGGGCGTCCCT	GGCCACAGCCTGAGTCAGAGGAAGCT	39319
QY	12901	TCCTAGAGAGGTGAGACCTGGTAGAAGGCGCGGAT	TTCCCAAGGAGAGACACGATTTTC	12960
DB	39320	TCCTAGAGAGGTGAGACCTGGTAGAAGGCGCGGAT	TTCCCAAGGAGAGACACGATTTTC	39379
QY	12961	AGGCAGGAGGAAGTAATGCTCTCCCTCATTTTACCC	TTTCAAAAAATACTTTACAGAGC	13020
DB	39380	AGGCAGGAGGAAGTAATGCTCTCCCTCATTTTACCC	TTTCAAAAAATACTTTACAGAGC	39439
QY	13021	ATCTTTGTGTGCCAGCGCTGGCTCTACTCTGCGGAT	ATAGAGAAGCAGGCAAGAAAC	13080
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QY	13141	ACAAAAATATAAGCATATGATAGACTGGGACGATGC	CTCATGCTGTGATCCTTAGTAA	13200
DB	39560	ACAAAAATATAAGCATATGATAGACTGGGACGATGC	CTCATGCTGTGATCCTTAGTAA	39619
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DB	39620	GGCGGGCGGATCACCTGAGGTGAGAGTTTGAGAC	CCAGCCTCGCCAGCGTGGCAAAACC	39679
QY	13261	CATCTCTACTAAAAATAACAAAATCAGCTGGGCAT	GGTGAGGCGCTGTATCCAGC	13320
DB	39680	CATCTCTACTAAAAATAACAAAATCAGCTGGGCAT	GGTGAGGCGCTGTATCCAGC	39739
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DB	39740	TACTCGGAAGCTGAGGCAGGAGAAATTCGTGAT	TTCCGSGAAGTAGAGCTGCAGTGAGC	39799
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DB	39920	TCCTTACTGGACTCTTACAGAACTTTACAGAGTT	TTTAAATGTTGTGGGGGTTTC	39979
QY	13561	ACCTGCATCAGAAATTCCTAGAGTGCTGCTTTTAA	AGACACATTCGCCAGCCCTTCGCA	13620
DB	39980	ACCTGCATCAGAAATTCCTAGAGTGCTGCTTTTAA	AGACACATTCGCCAGCCCTTCGCA	40039
QY	13621	GACCTACTCAGTGACGATCTCTCTGATGCCTCAAA	TGTGCTACTAAATTAATTCCTC	13680
DB	40040	GACCTACTCAGTGACGATCTCTCTGATGCCTCAAA	TGTGCTACTAAATTAATTCCTC	40099
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Search completed: October 20, 2006, 10:08:12

Job time : 3392 secs

GenCore version 5.1.9
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OM nucleic - nucleic search, using sw model
 Run on: October 20, 2006, 09:20:33 ; Search time 3681 Seconds
 (without alignments)
 2.615 Million cell updates/sec

Title: US-10-671-007-3
 Perfect score: 25301
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Scoring table: IDENTITY_NUC
 Gapop 10.0 , Gapext 0.5

Searched: 1 seqs, 190210 residues
 Total number of hits satisfying chosen parameters: 2

Minimum DB seq length: 0
 Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
 Maximum Match 100%
 Listing first 45 summaries

Database : ac022318.ig:*

Pred. No. is the number of results predicted by chance to have a
 score greater than or equal to the score of the result being printed,
 and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
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2	773.299	3.1	190210	1	ac022318 TOIG of: ac02231

ALIGNMENTS

RESULT 1
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DEFINITION	Homo sapiens chromosome 19 clone RP11-158G19, WORKING DRAFT				
SEQUENCE	SEQUENCE, 16 unordered pieces.				
ACCESSION	AC022318				
VERSION	AC022318.5	GI:15321555			
KEYWORDS	HTG; HTGS PHASE1; HTGS_DRAFT.				
SOURCE	Homo sapiens (human)				
ORGANISM	Homo sapiens				
	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;				
	Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;				
	Hominidae; Homo.				
REFERENCE	1 (bases 1 to 190210)				
AUTHORS	Waterston,R.H.				
TITLE	The sequence of Homo sapiens clone				
JOURNAL	Unpublished				
REFERENCE	2 (bases 1 to 190210)				
AUTHORS	Waterston,R.H.				
TITLE	Direct Submission				
JOURNAL	Submitted (30-JAN-2000) Genome Sequencing Center, Washington				
	University School of Medicine, 4444 Forest Park Parkway, St. Louis,				
	MO 63108, USA				
COMMENT	On Aug 28, 2001 this sequence version replaced gi:8516165.				

Genome Center
 Center: Washington University Genome Sequencing Center
 Center code: WUGSC
 Web site: http://genome.wustl.edu/gsc/index.shtml
 Project Information
 Center project name: H.NH0158G19

Summary Statistics
 Sequencing vector: M13, 64%
 Chemistry: Dye-terminator ET; 64% of reads
 Assembly program: Phrap; version 0.990319
 Consensus quality: 179489 bases at least Q40
 Consensus quality: 183023 bases at least Q30
 Consensus quality: 184976 bases at least Q20

* NOTE: This is a 'working draft' sequence. It currently consists of 16 contigs. The true order of the pieces is not known and their order in this sequence record is arbitrary. Gaps between the contigs are represented as runs of N, but the exact sizes of the gaps are unknown. This record will be updated with the finished sequence as soon as it is available and the accession number will be preserved.

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*	3108	3207: gap of unknown length
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*	4856	7087: contig of 2232 bp in length
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Db 132724 GTCTCTCAGGGGCGTGCCGCGGGGGGGGTCTCTTGGGGGGGTGGCGAGGCGAAGGGA 132665
Qy 16766 CTATCGGGGGCGTGCCAGCGAGGGGTCAACGAGGCGAGGCGGGTGGAGGGC 16825
Db 132664 CTATCGGGGGCGTGCCAGCGAGGGGTCAACGAGGCGAGGCGGGTGGAGGGC 132605
Qy 16826 TCCTCGGGGGCGTGCCAGGTGAGGGAATCATCGGGGGCGTGCCAGGCGAGGGGCTC 16885
Db 132604 TCCTCGGGGGCGTGCCAGGTGAGGGAATCATCGGGGGCGTGCCAGGCGAGGGGCTC 132545
Qy 16886 TTCGGGGGCGTGTCAGGCGGATGAATCTTTTGGGGGGTGGTTTACAGGGGGGGCTT 16945
Db 132544 TTCGGGGGCGTGTCAGGCGGATGAATCTTTTGGGGGGTGGTTTACAGGGGGGGCTT 132485
Qy 16946 TGTTCAGGCGATGGGATCAATTAAGCGGTGCGCAGGAGATGGCTCTCTTGGGGCGAGG 17005
Db 132484 TGTTCAGGCGATGGGATCAATTAAGCGGTGCGCAGGAGATGGCTCTCTTGGGGCGAGG 132425
Qy 17006 CCAGGACACGAGATTAATGAATGAGCGTATCCAGGCGAGGTAGATTCTTCGAGGGCGGTG 17065
Db 132424 CCAGGACACGAGATTAATGAATGAGCGTATCCAGGCGAGGTAGATTCTTCGAGGGCGGTG 132365
Qy 17066 TCGGGCGGATGAGCTCTCGGGGGCGTGGCGAGCGGTGAGTTCTCGGTGGCATGGCCT 17125
Db 132364 TCGGGCGGATGAGCTCTCGGGGGCGTGGCGAGCGGTGAGTTCTCGGTGGCATGGCCT 132305
Qy 17126 GGCAGGTGAATGGTCTCGGAGGTCTCTGAGCGGTGAGTTCTTGGGGGGCTGG 17185
Db 132304 GGCAGGTGAATGGTCTCGGAGGTCTCTGAGCGGTGAGTTCTTGGGGGGCTGG 132245
Qy 17186 CCAGGTGATGGGCTCTTGGGGGGAGTGGCCAGATGCTGTTTCCCTGGGGAGCTTGGTC 17245
Db 132244 CCAGGTGATGGGCTCTTGGGGGGAGTGGCCAGATGCTGTTTCCCTGGGGAGCTTGGTC 132185

Qy 17246 TTTCAGTGGCTGTAGCCAGTGTCTGGAAATTTTTCAGCAAAAGGGGCAAGTGGAGGAGGTTG 17305
Db 132184 TTTCAGTGGCTGTAGCCAGTGTCTGGAAATTTTTCAGCAAAAGGGGCAAGTGGAGGAGGTTG 132125
Qy 17306 CTTTCTCTAGTGGGCTGCGCAGAAATTTGGGCTCCGAGTGAAGCGGGTCAATCACTTTTGGATT 17365
Db 132124 CTTTCTCTAGTGGGCTGCGCAGAAATTTGGGCTCCGAGTGAAGCGGGTCAATCACTTTTGGATT 132065
Qy 17366 CTGACTGAAGAGGACACATCAAGAAACAGGACATTAATTTCTTCTTAGGATTCGCACTTTAGGGGCA 17425
Db 132064 CTGACTGAAGAGGACACATCAAGAAACAGGACATTAATTTCTTCTTAGGATTCGCACTTTAGGGGCA 132005
Qy 17426 GAGAGTCAGAACTGCAAGATTTTAAGAGGGGTGACTTTACTTCCAGGGGCTCCGCAATG 17485
Db 132004 GAGAGTCAGAACTGCAAGATTTTAAGAGGGGTGACTTTACTTCCAGGGGCTCCGCAATG 131945
Qy 17486 AGAGTGGCCAGGACACCTGGAATTAATAATATATGATGAGCAACTTTGATTCCTTTTTTTTTT 17545
Db 131944 AGAGTGGCCAGGACACCTGGAATTAATAATATATGATGAGCAACTTTGATTCCTTTTTTTTTT 131885
Qy 17546 TTTTGAAGAGGATAGTCTTTGTCCCGCAGGCTGGAGTGAATGGCGGATCTCGGCTC 17605
Db 131884 TTTTGAAGAGGATAGTCTTTGTCCCGCAGGCTGGAGTGAATGGCGGATCTCGGCTC 131825
Qy 17606 ACTGCAACCTCCGCTCCCGGTTTAAAGCAATTTCTCCGCTCTCAGGCTCTCTGAGTAGCTG 17665
Db 131824 ACTGCAACCTCCGCTCCCGGTTTAAAGCAATTTCTCCGCTCTCAGGCTCTCTGAGTAGCTG 131765
Qy 17666 GGAATACAGGCTCCCGCCACCACTCAGCTGATTTTGTATTTTGTAGTAGAGACCGGGT 17725
Db 131764 GGAATACAGGCTCCCGCCACCACTCAGCTGATTTTGTATTTTGTAGTAGAGACCGGGT 131705
Qy 17726 TTCGCCAGCTTGGCCAGGCTGTCTGGAACTCTGGAACCTCAGTGTATCCACCGCTTCG 17785
Db 131704 TTCGCCAGCTTGGCCAGGCTGTCTGGAACTCTGGAACCTCAGTGTATCCACCGCTTCG 131645
Qy 17786 CTTCCCAAGTGTGGGATTTACAGGCGTGAGCCACACGCCAGCTGCAACTTTGATTTCT 17845
Db 131644 CTTCCCAAGTGTGGGATTTACAGGCGTGAGCCACACGCCAGCTGCAACTTTGATTTCT 131585
Qy 17846 TAGTAGAAAGCCAGAAATTCATCTGTGTGTAGTGGCTGTGAAAGAGATTTTGGTGTTC 17905
Db 131584 TAGTAGAAAGCCAGAAATTCATCTGTGTGTAGTGGCTGTGAAAGAGATTTTGGTGTTC 131525
Qy 17906 CCGGATTTCCAGCGAATGGTGGCTTCAATTTCTGAGAGGCGGGGCGAGAA 17965
Db 131524 CCGGATTTCCAGCGAATGGTGGCTTCAATTTCTGAGAGGCGGGGCGAGAA 131465
Qy 17966 CGTGGTCTGATAGTTGGCGGTGGTCTGGCGGGTGGAGATTTCTGAGTAGCAGGATTTAGCA 18025
Db 131464 CGTGGTCTGATAGTTGGCGGTGGTCTGGCGGGTGGAGATTTCTGAGTAGCAGGATTTAGCA 131405
Qy 18026 CTTTAGGGCCCTCCAGGAGATGTGGCTGTGAAATTTCTGTTGGTGGTGCATCTGG 18085
Db 131404 CTTTAGGGCCCTCCAGGAGATGTGGCTGTGAAATTTCTGTTGGTGGTGCATCTGG 131345
Qy 18086 AACCTTCCAGCTGTCTGAGTGTATGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAG 18145
Db 131344 AACCTTCCAGCTGTCTGAGTGTATGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAG 131285
Qy 18146 TCCCGCTCTTAAGCCCATGCACTTCTCCGAGGACCGCTGTATTTCTGATGGAGTAGC 18205
Db 131284 TCCCGCTCTTAAGCCCATGCACTTCTCCGAGGACCGCTGTATTTCTGATGGAGTAGC 131225
Qy 18206 TCACCGGGGAGACTTGTATACCAATTCAGCTGGGCAAGTTTAAAGAGCCCATG 18265
Db 131224 TCACCGGGGAGACTTGTATACCAATTCAGCTGGGCAAGTTTAAAGAGCCCATG 131165
Qy 18266 CAGCTGAGTCTCGGCGAAGAGATGTTCCGGGTGGTGGAGGGGCGAGGATTCAGGC 18325
Db 131164 CAGCTGAGTCTCGGCGAAGAGATGTTCCGGGTGGTGGAGGGGCGAGGATTCAGGC 131105

Qy	22706	CCAGCTTCTCCAGGCTCACACACACACCCCAATGCTGCTCTGTGCTGCTATAGAAAA	22765
Db	126724	CCAGCTTCTCCAGGCTCACACACACACACCCCAATGCTGCTCTGTGCTATAGAAAA	126665
Qy	22766	TGCTCCCAATTCCTGAAGTCACTTTACTTCATCTGTTGGAAAAGTTGATATGATGATAG	22825
Db	126664	TGCTCCCAATTCCTGAAGTCACTTTACTTCCATCTGTTGGAAAAGTTGATATGATGATAG	126605
Qy	22826	GTTTTGTAGAACAAATGATTTCCAGCCCTGTTGCGACAGGCGCTGGAGATGGCTCTGTG	22885
Db	126604	GTTTTGTAGAACAAATGATTTCCAGCCCTGTTGCGACAGGCGCTGGAGATGGCTCTGTG	126545
Qy	22886	TCATCCCTCTCTGTGACTCCCACTCCCACTCCCTGCTTTGCGAGGAGTGTGAAAGTCC	22945
Db	126544	TCATCCCTCTCTGTGACTCCCACTCCCACTCCCTGCTTTGCGAGGAGTGTGAAAGTCC	126485
Qy	22946	AGGGTGTCTGTCTGTCTAGAACTGGGTGGGTGAGTAAACCCCACTTCTGACGCTTTCT	23005
Db	126484	AGGGTGTCTGTCTGTCTAGAACTGGGTGGGTGAGTAAACCCCACTTCTGACGCTTTCT	126425
Qy	23006	TCCTGTGTGAATCTGGGTGAGTCAACAAACTTTGTGAGCTTAACTCTCTTCAGGGGTTA	23065
Db	126424	TCCTGTGTGAATCTGGGTGAGTCAACAAACTTTGTGAGCTTAACTCTCTTCAGGGGTTA	126365
Qy	23066	TGGAGTTGACACAGAAAGAACCTTGGGCCATAGACAGATTTTCAGCCCATGTGACACCC	23125
Db	126364	TGGAGTTGACACAGAAAGAACCTTGGGCCATAGACAGATTTTCAGCCCATGTGACACCC	126305
Qy	23126	TTCTGGGTCTAGCTGTCTCTCTGATCTCCCTGACAGTCTCTCTGGTTCCTCTCTCATG	23185
Db	126304	TTCTGGGTCTAGCTGTCTCTCTGATCTCCCTGACAGTCTCTCTGGTTCCTCTCTCATG	126245
Qy	23186	CCCTCCCTCCATCTGATACAGATGGGCTCTCTGCTGTTTCTCTCTCTCTCTCTCTCT	23245
Db	126244	CCCTCCCTCCATCTGATACAGATGGGCTCTCTGCTGTTTCTCTCTCTCTCTCTCTCT	126185
Qy	23246	TTCTGCATCTCTGTCTACACTTTTGGGCTTTTGTCCAAACCCCTACCCGCCATCTCTGT	23305
Db	126184	TTCTGCATCTCTGTCTACACTTTTGGGCTTTTGTCCAAACCCCTACCCGCCATCTCTGT	126125
Qy	23306	CCCTCTGTGTCCACTCTCATACACACAC - -GCTACATCTGACCTCTCTCTCTCTCT	23363
Db	126124	CCCTCTGTGTCCACTCTCATACACACACAC - -GCTACATCTGACCTCTCTCTCTCTCT	126065
Qy	23364	CTTTCTGCTCCCTCTCTCTGCTGCTCTGCTCCCATATTTGCTTTATTTCTCTCTCT	23423
Db	126064	CTTTCTGCTCCCTCTCTCTGCTGCTCTGCTCCCATATTTGCTTTATTTCTCTCTCTCT	126005
Qy	23424	TGGGTGTGTCTCTGCTCTCTATCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT	23483
Db	126004	TGGGTGTGTCTCTGCTCTCTATCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT	125945
Qy	23484	CTCTCTGTCTCTCTCTCTCTGCTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT	23543
Db	125944	CTCTCTGTCTCTCTCTCTCTGCTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT	125885
Qy	23544	CTCTGAATTTCTATTTCT	23603
Db	125884	CTCTGAATTTCTATTTCT	125825
Qy	23604	CTCTTCCCT	23663
Db	125824	CTCTTCCCT	125765
Qy	23664	TCACCT	23723
Db	125764	TCACCT	125705
Qy	23724	CCT	23783
Db	125704	CCT	125645
Qy	23784	TTTCTCTGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG	23843

Db	125644	TTTCTCTGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG	125585
Qy	23844	CT	23903
Db	125584	CT	125525
Qy	23904	TCT	23963
Db	125524	TCT	125465
Qy	23964	CTGTCT	24023
Db	125464	CTGTCT	125408
Qy	24024	CT	24083
Db	125407	CT	125348
Qy	24084	CTTTCTTTTCT	24143
Db	125347	CTTTCTTTTCT	125288
Qy	24144	ATCTCATGCTGTGTCT	24203
Db	125287	ATCTCATGCTGTGTCT	125228
Qy	24204	TCTACTGTCTGGGCT	24263
Db	125227	TCTACTGTCTGGGCT	125168
Qy	24264	CTGTACCAAGACACCCAGGGAAGCGCTGGGCTCAGGGCTGATGGGGAACCTTACCATCG	24323
Db	125167	CTGTACCAAGACACCCAGGGAAGCGCTGGGCTCAGGGCTGATGGGGAACCTTACCATCG	125108
Qy	24324	TGCACATGGCTTTTTCGCTGGATTTGACTTGGAGCGGCTTGGAAACGATTTGAGATCCCGC	24383
Db	125107	TGCACATGGCTTTTTCGCTGGATTTGACTTGGAGCGGCTTGGAAACGATTTGAGATCCCGC	125048
Qy	24384	TCCTTTTCAGACCCCGCGCTCAGTCACTCTCAGGCAACAAACCTTGGTCCCTGGAAG	24443
Db	125047	TCCTTTTCAGACCCCGCGCTCAGTCACTCTCAGGCAACAAACCTTGGTCCCTGGAAG	124988
Qy	24444	GGTGGGTTTCCCTCGGCTCAATATACCTGTATGTGGGGTGGGTTCCCTCTGCGAG	24503
Db	124987	GGTGGGTTTCCCTCGGCTCAATATACCTGTATGTGGGGTGGGTTCCCTCTGCGAG	124928
Qy	24504	CCCCCGCCCCCAACAAAGGAGGTGCAGACACCATGAAGCATGAATAGAGATTCTGCAG	24563
Db	124927	CCCCCGCCCCCAACAAAGGAGGTGCAGACACCATGAAGCATGAATAGAGATTCTGCAG	124868
Qy	24564	GAGACAGAGATGAGACTGGGGTACACAGAGGACACCCGAGGACCTCGGAGCTGCTT	24623
Db	124867	GAGACAGAGATGAGACTGGGGTACACAGAGGACACCCGAGGACCTCGGAGCTGCTT	124808
Qy	24624	AACTTTCTCTCCCCACCTCTCCCACTGTGGCGCAGCGCGAGAACTTTTGACAGTT	24683
Db	124807	AACTTTCTCTCCCCACCTCTCCCACTGTGGCGCAGCGCGAGAACTTTTGACAGTT	124748
Qy	24684	CTTACGCGGGCGCGCAGCGCTGACCTCTCAGACCGCTTAGTCTTGGCCAGCATCGA	24743
Db	124747	CTTACGCGGGCGCGCAGCGCTGACCTCTCAGACCGCTTAGTCTTGGCCAGCATCGA	124688
Qy	24744	CCAGGCGGATTTCCAGGGCTTCACTAGTGAACCCCGACCTTCGTCACCCGAGTCCCG	24803
Db	124687	CCAGGCGGATTTCCAGGGCTTCACTAGTGAACCCCGACCTTCGTCACCCGAGTCCCG	124628
Qy	24804	CAGCCCAACAGCCAGTGTCTGTGCTCTCATGTAACTCTCACCCGCGCCCACTAGGTGT	24863
Db	124627	CAGCCCAACAGCCAGTGTCTGTGCTCTCATGTAACTCTCACCCGCGCCCACTAGGTGT	124568
Qy	24864	CCCCAACTCTCCCTCGCGCTGCGCGCGGACCCCACTTCAACCCCACTTCAACCC	24923

60066 CACACA-----CACACACACACACAC 60088
QY 11605 GGAGGCACTAATCCAGCCTGGGAGGGTGGTCAGGAGGACTTCCCTGAGGAGGTGACG 11664
Db 60089 ATATACACACATATACATGTGTGAATATACATGTGTGAATATATATGTACTGTATACAGG 60148
QY 11665 CCTGAATTGATCTTTGAGGTTTTTAAATTTTTTAAATTTTTTAAATTTTTTAAATTTTTTAA 11724
Db 60149 CAITTA-----TTCTAAGAAATTTTACTTTTTTAAATTTTTTAAATTTTTTAAATTTTTT 60192
QY 11725 -----TTTTATTTCTGTCGCCAGCTGGAGTGCATGGCAATCGCCGCTACTG 11776
Db 60193 GAGACAGAGTCTCACTCTGTGTGCCAGGCTGGACTGCAGTGGCTGA-----GGCTCACTG 60247
QY 11777 CAACCTCCAGCTCCGGGTTCAAGCAATCTCTTGCTCAGCTCCTGAGTGTAGTGGGAT 11836
Db 60248 CAACCTCCCTCTCCAGGTTCAAGCAATCTCTTGCTCAGCTCCTGAGTGTAGTGGGAT 60307
QY 11837 TACAGGTGACCGCCACACACACACAGCTAAATTTTTTTTTTAAATTTTTTAAATTTTTTAAATTTTT 11896
Db 60308 TACAGGCACACACACACACAGCTAA-----ATTTGTATTTTTTAAATTTTTTAAATTTTTTAA 60364
QY 11897 TCGCCATGTTGGCAGGCTGATCTAAATCCAAATCCAAATCCAAATCCAAATCCAAATCCAAATCC 11956
Db 60365 TCACTATGTTGGCAGGCTGGTCTTGAACTCTGGCTCAGGCTGATCCATCTGCTCAGC 60424
QY 11957 CTCCAAAGTGTGGGATTAAGGCATGAGCCTGCGCCCGACCGATTCTC-----12006
Db 60425 CTCCAAAGTGTGGGATTAAGGCATGAGCCTGCGCCCGACCGATTCTC-----12006
QY 12007 -----TTGAGTTTTTATTTTTTTTTTATTTTTTATTTTTTATTTTTTATTTTTTATTTTTT 12046
Db 60485 ATATGCAATGCAATGAT 60544
QY 12047 GAGCCGAGGCTGGAGTGCAGTGTGGGATCTCGGCTCACTGCAAGCTCCGCTCCTCGG 12106
Db 60545 -TTGTCAGGCTGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCA 60603
QY 12107 TTACGCCATCTCTGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCA 12166
Db 60604 TTCAAGCAATTTCTCTGCTCAGCTCAGCTCAGCTCAGCTCAGCTCAGCTCAGCTCAGCTCAGCT 60662
QY 12167 TGCCGGCTAAATTTTTTATTTTTTATTTTTTATTTTTTATTTTTTATTTTTTATTTTTTATTTTTT 12226
Db 60663 CGCCGGCTAAATTTTTTATTTTTTATTTTTTATTTTTTATTTTTTATTTTTTATTTTTTATTTTTT 60722
QY 12227 GTCTGATCTCTGCACT-GGTGAATCACCAGGCTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTG 12285
Db 60723 GTCTCAAACTGCTGATCTCAGGTGATCCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 60782
QY 12286 AGCGTGAGCCACACACACAGCGGATCTTGAGTTTAAATATCTATCAAGCATGATC 12345
Db 60783 AGCGATGAGCCACACACAGCGGATCTTGAGTTTAAATATCTATCAAGCATGATC 60832
QY 12346 ATCTTAATCTCTCAATTCATTCATCTCACTGATATCTCTCTCTCTCTCTCTCTCTCTCTCT 12405
Db 60833 -----TTAATATGCTATTTT 60848
QY 12406 TCTTTCTTTTTTTTTTGAACAGCA-ATCTCTTTTTTGTACACAGGTTGAGTGCAGTGA 12464
Db 60849 TTAATTTTTTTTTTGAATGAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 60908
QY 12465 TGCAGTCTCAGCTCAGTGCACCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 12524
Db 60909 TGCAGTCTGCTGCTCAGTGCACCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 60968
QY 12525 CTCTGAGTGTGGGATTAAGGAGCGCACACACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 12584
Db 60969 CTCTGAGTGTAGTAAATTAAGGAGCGCACACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 61026
QY 12585 AGTAGAGTGGGTTTGCATGTTGCGCAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 12644
Db 61027 AGTAGAGTGGGTTTCTCCATGTTGCTCAGGCGGCTCTCGAACTCCCGACCTCAGGTGA 61086

QY 12645 TCACCGCGCTTTGGCTCCCAAAGCGCTGAGATTAGAGCGCTGAGCAGCAGCCCGCAGAC 12704
Db 61087 TATGTGGCTTTGGCTCCCAAAGCGCTGAGATTAGAGCGCTGAGCAGCAGCCCGCAGCC 61146
QY 12705 -----GAATACCATTTTCTAGGGTGTCAATAGCCAGGCGCTGCTGCTGCTGCTGCTGCTGCT 12755
Db 61147 AATATGTTTTAAATAGAAAAATTATACAGTCCGGGTGCCAAATTTTTTTTTTGTAGAGACAG 61206
QY 12756 ATCAGGCA-----TTCCCTGCTGGAGCTCTTCTCTAGTGGAGGACAAAGTTACAAACCCA 12812
Db 61207 GTCTCACTATGTTGCCAGGCTGGCTTTGAACATATTTGGCTTCAAGCATGCTCTCTCTCTTT 61266
QY 12813 GACATTCAACACAGGAGCAATGCTG-----CTGTAATGGAGACAGCCTCAGG 12860
Db 61267 GCGTCCCAAAGTGTGGGATTAAGGCATGAGTCCCTGTCGCGCAGGCTCTCTTTTAA 61326
QY 12861 CACTGGGGCGTCCCTGGCACAGCCTGAGTCAG-----AGAAAGCTTCTCTAGAGAGG 12911
Db 61327 CAATCAGCTCTCATGGAAACAAATAGACAGCAAAATTTCACTCATTTACCTTGAGAGAGCGC 61386
QY 12912 TCAGACCTGTTAGAGGGCGGATTTCCAAAGGAGAGACAGATTTTTCAGGAGGAGGA 12971
Db 61387 CAAGCTCTTTCATGCAAGGATGGGCTCCACGACGCAAAACCTCCCAAGAGGCCAGGCGC 61446
QY 12972 AGTAATGCTCTCTCCCTCATTTTACCTTTTCAAAAA-----13007
Db 61447 TCAACATTCAGAAATAATTTTCTTTTTTCTTTGAGACAGAGTCTCACTCTCTTGGCCAGG 61506
QY 13008 -----TACTTTACAGAGCATCT 13024
Db 61507 CTGAGTGCAGTGGCGCAATCTCGGCTCACTGCAACCTCCACCTCCAGGCTCAAGCGAT 61566
QY 13025 TTGTGTGCCAGGCTGGCTCTACTCACTGGGATATAGAGAAAGCAGGAGAAAGCAAAAC 13084
Db 61567 TCTCTGCTCAGCTCTCTGAGATCAAGGCGCTCGCCACCATGCGCGCTAATTTTGT 61626
QY 13085 AAAACAAACAAAAAGTTCTTTTATGGGATTTTACACCGGGAGGAGACATTAACAA 13144
Db 61627 ATTTTGTAGTAGAGGGGATTTTCAACATGGTGTGCTGAGTCTGCTCAAACTCTGACCGC 61686
QY 13145 AATATATAAGCATATATAGATAGCTGGGCA-----GATGCTCATGCTGTGATCTCTAGTA 13199
Db 61687 AGGTGATCCACCCACCTCGGCTCCCAAAGTGTGAGATTACAGGTGTGAGCAGCAGCTGC 61746
QY 13200 AGCGGGCGGATCACTGAGGTTCAGAGTTCAGACCACTGCGCGCAGCGTGCAAAA--- 13256
Db 61747 CCAGCCCGAGGATCAATTTTCAACATGAGATTTGGAGGGGACAAATAGGTAACCATATAA 61806
QY 13257 -----ACCCCATCTCTACTAAAAATAACAAAAATCAGCTGGGATGGTGA 13302
Db 61807 ATATCTTTATTTTATGTTTCTCACTGTAAGATTGCTCATGCTCATGCTTCTTAC 61866
QY 13303 GCGCGCTGTAATCCAGCTACTCGGAAGCTGAGGAGGAGAAATGCTGGAATTCGGGAA 13362
Db 61867 TTAGACTTCTCTCTAGAAAGCTTTTATTTAGTAAACAGAGCTTCTCTCTCTTTTAA 61926
QY 13363 GTAGAGGCTG-----CAGTGAGCCAGATCGCTCCACTGCACTCC 13402
Db 61927 GAAGATACAGACATGTTGCAATTTGAATCTGCCATCTTCTCATCTCACAGTCCCTAT 61986
QY 13403 AGCTGGATGACAGAGGGAGACTCTGCTCTCAAAAAA-----AAAA 13445
Db 61987 AGATGGAGTCTTGATCTATTTCCAGTCTTTAGAGTACATTGAGCAGGGGAGTTTACAA 62046
QY 13446 AAAAAAAGAGACAGAAATCTTCAAGATTTCAACACAGC-----AACACAT 13493
Db 62047 ATCAATAGATTTCTCTGCTGCTTCCCAAAAAATGCAAGCTACGCTCTTCAAAACGAAG 62106
QY 13494 GTATAGTCTTTACTGGACTCTTTACAGAACTTTACAGAGGTTTAAATGTTGTGTGTG 13553
Db 62107 ACTTCAGTCTATTTGCTTTAAGGATGACAAAAAGTCCACATCTGTTAATCTCATC 62166

Qy	13554	GGG-----GTTCCACCTGCATCAGAAATTCCTAGAGTGCTTGTCTTTTAAAGC	13599
Db	62167	AGGAGAAAAACGAAATCATCTCATGCCCATGAACCTCTCTTGGGCTATGTGAAGGGG	62226
Qy	13600	ACATTCCCCAGCCTTCTGSCAGACCTACTCAGTGACGATCTCTCTGATGCCCTCAAATGTC	13659
Db	62227	AATTCCTGAGGGTCTCTTTGCCATGCAGCAGGAGAGCCTCTGGCTGTGGTGGCTCTTGT	62286
Qy	13660	TGCCTACTAAATTAATTCCTCAGGTGATCCTTTTGCAAGTTAAGTTTGAGATGGGCTC	13719
Db	62287	TGGATCCAAGAGCA-----GAGGAGGAATGTGTTGAAGGACTTTGAGTAAAGCAA	62338
Qy	13720	TGCGCGCGGGCGAGTGGCTCACGCTGTCTATCCAGCACTTTGGGAGGCCAAGCGGGT	13779
Db	62339	AAGAGCCGGGCGCGGTGGCTCACGCTTATATCCAGCACTTTGGGAGGCCGAGCGGGC	62398
Qy	13780	GGATCAGAGGTCAGGAGATCGAGACCATCTGGCTAACACGGTGAATCCCGCTCTCTAC	13839
Db	62399	GGATCAGAGGTCAGGAGATCGAGACCATCTGGCTAACATGCTGAACCCCGTCTCTAC	62458
Qy	13840	TAAAAATACAAAAAATTAGTGGGCGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG	13899
Db	62459	TAAAAATAC-AAAAAAATTAGCCAGGCGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG	62517
Qy	13900	GAGGCTGAGGCGAGGAATGGCATGAACCTGGGAGTGGAGCTTGGCAATGAGCCGAGATC	13959
Db	62518	GAGGCTGAGGCGAGGAATGGCTGMAACCCGGGAGGAGAGCTTGCAGTGAGCAGAGATA	62577
Qy	13960	GTGCCACTGCACACTACGCTGGGTGACAGAGCGAGACTCTATCTCAGAAAAA	14019
Db	62578	GAGCCTGCACTCCAGCTGGGTGACAGCGAGACTCCCTCTCAAAAAA	62637
Qy	14020	AGAGAGA	14026
Db	62638	CAGAAGA	62644

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Job time : 3797 secs

QY	1037	CTGTGGCTCCAGAGGTTGGGGTCCAGGTAACCCCTTTCTGCACTGACCTAGATCCCT	1096
DB	781	CTGTGGCTCCAGAGGTTGGGGTCCAGGTAACCCCTTTCTGCACTGACCTAGATCCCT	840
QY	1097	GACTCTTCCAGGGTATCGGAAAGCAGGGCTGCAATGTCAAGGTAAAGAGCTGGGGACCG	1156
DB	841	GACTCTTCCAGGGTATCGGAAAGCAGGGCTGCAATGTCAAGGTAAAGAGCTGGGGACCG	900
QY	1157	GGGCTCTCGGACCTCAGAGGGTGGAGGCTGGGGCCCAACAGCTGAGGCTGCTTGACA	1216
DB	901	GGGCTCTCGGACCTCAGAGGGTGGAGGCTGGGGCCCAACAGCTGAGGCTGCTTGACA	960
QY	1217	CACGTGTTCTGTCTCCAGAGGCGCGGGGAGCCCGGGCGGGGGTGTGGCAGAG	1276
DB	961	CACGTGTTCTGTCTCCAGAGGCGCGGGGAGCCCGGGCGGGGGTGTGGCAGAG	1020
QY	1277	ACACAGCCTGTGGTGGGAGGGAGCTTTGATGGTGGGGCCACCGCGAGGTTGGTGGG	1336
DB	1021	ACACAGCCTGTGGTGGGAGGGAGCTTTGATGGTGGGGCCACCGCGAGGTTGGTGGG	1080
QY	1337	GGCCCCCTCCCTGCGCGGCTCCAGTGGGGACAGATATTTGGAGAAATCTGTGGCCATGGG	1396
DB	1081	GGCCCCCTCCCTGCGCGGCTCCAGTGGGGACAGATATTTGGAGAAATCTGTGGCCATGGG	1140
QY	1397	AACATGGAGATTTGGAAAGGGAGCTCAAGGGGGAGGGGAGGGGCTTGGAGATGCA	1456
DB	1141	AACATGGAGATTTGGAAAGGGAGCTCAAGGGGGAGGGGAGGGGCTTGGAGATGCA	1200
QY	1457	AAATCAGAGCCCCCCCCCAGGCTGCGCATGACAAACACAGCCGCTCTAGG	1516
DB	1201	AAATCAGAGCCCCCCCCCAGGCTGCGCATGACAAACACAGCCGCTCTAGG	1260
QY	1517	CAGGGCAGGCGGGTGGGTGCAACAATGGGCGAGTGGGGCCCGGGCGGGCGGGAGTT	1576
DB	1261	CAGGGCAGGCGGGTGGGTGCAACAATGGGCGAGTGGGGCCCGGGCGGGCGGGAGTT	1320
QY	1577	CTGGGGCGGGAGAGGGGCGAGTCTGTGAGCACCAGCTGCTACTGCTGAGAAACAGAG	1636
DB	1321	CTGGGGCGGGAGAGGGGCGAGTCTGTGAGCACCAGCTGCTACTGCTGAGAAACAGAG	1380
QY	1637	TGAGTCAGGGTGGGGCGGGCCGAGCAGCGCCCGCAGACTCACTTTGCCCCAAGTTG	1696
DB	1381	TGAGTCAGGGTGGGGCGGGCCGAGCAGCGCCCGCAGACTCACTTTGCCCCAAGTTG	1440
QY	1697	CTGCTTCTCGGGCTGCGTGAAGATATTTCCGGTTTTCGTCTTTGAAATCTGTGCTC	1756
DB	1441	CTGCTTCTCGGGCTGCGTGAAGATATTTCCGGTTTTCGTCTTTGAAATCTGTGCTC	1500
QY	1757	TCTCTGGCTTCTGATCTCCGTCCGTGGGCTGTGTCTGTTCTCAATGGGATCTTATT	1816
DB	1501	TCTCTGGCTTCTGATCTCCGTCCGTGGGCTGTGTCTGTTCTCAATGGGATCTTATT	1560
QY	1817	TTCTTTCTCTCTTTTCCATCTCCCTTCCCTGAGCTCTGTCTCTGTCTCTCTGTAAG	1876
DB	1561	TTCTTTCTCTCTTTTCCATCTCCCTTCCCTGAGCTCTGTCTCTGTCTCTCTGTAAG	1620
QY	1877	TCTCTGGCTCTCTGTTCTGACTGAGCCCACTCTTTGGGTTTCTGTCTCTGCTCTC	1936
DB	1621	TCTCTGGCTCTCTGTTCTGACTGAGCCCACTCTTTGGGTTTCTGTCTCTGCTCTC	1680
QY	1937	TCTCTGGCTCCGATTTTCTCTGTGGACTCTGTGTGTGAGATCCCTCTCTTTCTGG	1996
DB	1681	TCTCTGGCTCCGATTTTCTCTGTGGACTCTGTGTGTGAGATCCCTCTCTTTCTGG	1740
QY	1997	TTTTCTCAGTCTCGAGTTCCGCTCTCTCTTTTCAATTTTCTGTCTGTGGGCTCTCCCG	2056
DB	1741	TTTTCTCAGTCTCGAGTTCCGCTCTCTCTTTTCAATTTTCTGTCTGTGGGCTCTCCCG	1800
QY	2057	CTGACTAATCCATCCCTCCGTCTGTGTCTCTATGATTTTCTATAGTCTGAGCTTT	2116
DB	1801	CTGACTAATCCATCCCTCCGTCTGTGTCTCTATGATTTTCTATAGTCTGAGCTTT	1860

QY	2117	GTGGTTTCATCGAGATGCCACGAATTTGTGACCTTCGAGTGTCCAGGCGCTGGAAAGGGC	2176
DB	1861	GTGGTTTCATCGAGATGCCACGAATTTGTGACCTTCGAGTGTCCAGGCGCTGGAAAGGGC	1920
QY	2177	CCCACAGCGAAGCTGAGTGTCTCGGACACCTGTGTTCTCTCGGGCCGTGCCCCGCC	2236
DB	1921	CCCACAGCGAAGCTGAGTGTCTCGGACACCTGTGTTCTCTCGGGCCGTGCCCCGCC	1980
QY	2237	TCACCCCTTCGGGCTCCGTCCTCCAAATTTCTCTGCTATTTTATTTGCTGGGAGGGAGGGG	2296
DB	1981	TCACCCCTTCGGGCTCCGTCCTCCAAATTTCTCTGCTATTTTATTTGCTGGGAGGGAGGGG	2040
QY	2297	GGCTGAGAGATAGGGGAGCTATCTGGCCCAAGATCTTTCCTTGGCCTTGGCCTGGAAGGGG	2356
DB	2041	GGCTGAGAGATAGGGGAGCTATCTGGCCCAAGATCTTTCCTTGGCCTTGGCCTGGAAGGGG	2100
QY	2357	GAAATCGAGGGGACTGACAGGCTGGGGACACGGGTGGGGCACAGAGAGAGGCCGGGT	2416
DB	2101	GAAATCGAGGGGACTGACAGGCTGGGGACACGGGTGGGGCACAGAGAGAGGCCGGGT	2160
QY	2417	GAGGAGACTGAAGATGGGTGCTGCCGGGGTGGCTGTGATCCAGGGGTGAAGGGATTTA	2476
DB	2161	GAGGAGACTGAAGATGGGTGCTGCCGGGGTGGCTGTGATCCAGGGGTGAAGGGATTTA	2220
QY	2477	AAATTTGAGAGCTGAGGGGACACCGAGAAATAATTCAGTGCAGGTGCGGAGATGCCAAC	2536
DB	2221	AAATTTGAGAGCTGAGGGGACACCGAGAAATAATTCAGTGCAGGTGCGGAGATGCCAAC	2280
QY	2537	ATAAGACAGAGGGATCTCAGGGAGAGAACAGAGACAGAGACAGAGACCTAGGAG	2596
DB	2281	ATAAGACAGAGGGATCTCAGGGAGAGAACAGAGACAGAGACAGAGACCTAGGAG	2340
QY	2597	AGACTCAAGCTGAGGACAGAGAGAGATGGAGCAGAGAAAGAACACAGGGAGAGAAAG	2656
DB	2341	AGACTCAAGCTGAGGACAGAGAGAGATGGAGCAGAGAAAGAACACAGGGAGAGAAAG	2400
QY	2657	GAGGAAATTTGGAGGACCAAAAGATGGAACAGAGAAACTCCAGAGACGGAGACACAGACA	2716
DB	2401	GAGGAAATTTGGAGGACCAAAAGATGGAACAGAGAAACTCCAGAGACGGAGACACAGACA	2460
QY	2717	CCTGGAGAAAGAGACTTAAATAATGATAAATGATGATACAGACACAGCTTAGGAGATGCTG	2776
DB	2461	CCTGGAGAAAGAGACTTAAATAATGATAAATGATGATACAGACACAGCTTAGGAGATGCTG	2520
QY	2777	AGAGGAGACCCAGGGAGTCCCAACAGTACACTTGCACACATGTGCGTGCATGTACAGATG	2836
DB	2521	AGAGGAGACCCAGGGAGTCCCAACAGTACACTTGCACACATGTGCGTGCATGTACAGATG	2580
QY	2837	CCCTCTGTCTATCAGATGTGACGACGACGACAGACACAGCCCTCTCCCAACCCCTCTCT	2896
DB	2581	CCCTCTGTCTATCAGATGTGACGACGACGACAGACACAGCCCTCTCCCAACCCCTCTCT	2640
QY	2897	CTCCATCAGAGGCTCACAAGACCAAGTCAACCTTGAGTGCCTCCGTTCCGTTCCCTTTCTG	2956
DB	2641	CTCCATCAGAGGCTCACAAGACCAAGTCAACCTTGAGTGCCTCCGTTCCGTTCCCTTTCTG	2700
QY	2957	CTTTATCTCTGAGCCTCAGTTTCTCTCTATATAAATGGGGCTGATGATCTAGCATTTGAC	3016
DB	2701	CTTTATCTCTGAGCCTCAGTTTCTCTCTATATAAATGGGGCTGATGATCTAGCATTTGAC	2760
QY	3017	CAACAGAACTGTTTACAGTGAACGAGCAATCTGTATATGCACTGTCCAAATAGGACGCCA	3076
DB	2761	CAACAGAACTGTTTACAGTGAACGAGCAATCTGTATATGCACTGTCCAAATAGGACGCCA	2820
QY	3077	CCAGCTCCATGTAGCCAGTGAAGCACTTGAACAGGGGCTGTGGCTGAGGATTTAGAAAT	3136
DB	2821	CCAGCTCCATGTAGCCAGTGAAGCACTTGAACAGGGGCTGTGGCTGAGGATTTAGAAAT	2880
QY	3137	TCCATTTCTGCTCATTTGAAATGGCTTAAATTTTTTTTTTTTTTTTTTTTTTTTATTTT	3196
DB	2881	TCCATTTCTGCTCATTTGAAATGGCTTAAATTTTTTTTTTTTTTTTTTTTTTTTATTTT	2940
QY	3197	GGAGTCCGCTCTCTGTTGCCCCAAGCTGGAGTGCAGTGGCGCAGTCTCAGCTCAATGCAACT	3256

Db	2941		GGAGT	CGCGCT	CTGT	GTGCC	CAAGCT	TGGAGT	CGAGT	TGGCGC	AGTCT	CAGCT	CAAT	TGC	AACT	3000					
Qy	3257		TCCG	TTTTCC	CAGGTT	CAAGCA	AAATCT	TTCT	TACCT	CAGCCT	CTCG	TAGT	AGCT	TGGG	ACTAC	AG					
Db	3001		TCCG	TTTTCC	CAGGTT	CAAGCA	AAATCT	TTCT	TACCT	CAGCCT	CTCG	TAGT	AGCT	TGGG	ACTAC	AG					
Qy	3317		CGCA	TG	CCAC	CA	CCCG	CTAA	TTTTTTTT	TGTTAT	TTTTTT	TGTTAT	TTTTTT	TAGT	AGAGAT	TGGGGTTT	CACC				
Db	3061		CGCA	TG	CCAC	CA	CCCG	CTAA	TTTTTTTT	TGTTAT	TTTTTT	TGTTAT	TTTTTT	TAGT	AGAGAT	TGGGGTTT	CACC				
Qy	3377		ATG	TTGG	CAG	CGT	CTCG	CAACT	CTCT	GACCT	TTGT	GATCC	ACCC	CGCT	TGGCGCT	TCCCAA	3436				
Db	3121		ATG	TTGG	CAG	CGT	CTCG	CAACT	CTCT	GACCT	TTGT	GATCC	ACCC	CGCT	TGGCGCT	TCCCAA	3180				
Qy	3437		AGT	GT	TGG	GATT	TAC	AGG	CGT	GAG	CCAC	CGCG	CCCG	CGG	CAGAACT	GACTTTAAAT	TTAAACAG	3496			
Db	3181		AGT	GT	TGG	GATT	TAC	AGG	CGT	GAG	CCAC	CGCG	CCCG	CGG	CAGAACT	GACTTTAAAT	TTAAACAG	3240			
Qy	3497		CCA	CAT	GT	AGT	TAGT	TAG	TGG	CCAC	CCAAAT	TGGGA	CAG	CA	CATCTG	GA	CACTTCC	AGGCTTGT	3556		
Db	3241		CCA	CAT	GT	AGT	TAGT	TAGT	TGG	CCAC	CCAAAT	TGGGA	CAG	CA	CATCTG	GA	CACTTCC	AGGCTTGT	3300		
Qy	3557		TTT	GAA	GT	CAG	GT	CGGTT	TC	AG	TTTT	TCGCC	CCAG	GGTTG	A	CAC	AA	GAATCG	GAGACAGTTT	3616	
Db	3301		TTT	GAA	GT	CAG	GT	CGGTT	TC	AG	TTTT	TCGCC	CCAG	GGTTG	A	CAC	AA	GAATCG	GAGACAGTTT	3360	
Qy	3617		TAT	GAT	GT	TAC	AGT	TG	GAG	AGG	CGC	GAG	AG	GAGAT	TCC	AC	AA	GAATG	CCATG	AGCGG	3676
Db	3361		TAT	GAT	GT	TAC	AGT	TG	GAG	AGG	CGC	GAG	AG	GAGAT	TCC	AC	AA	GAATG	CCATG	AGCGG	3420
Qy	3677		TTTT	TACC	AC	CCCT	CTC	CAG	CTG	AAAA	TAA	CAG	AA	GTCTA	CAT	AG	AA	GAATGT	GACTTT	CAT	3736
Db	3421		TTTT	TACC	AC	CCCT	CTC	CAG	CTG	AAAA	TAA	CAG	AA	GTCTA	CAT	AG	AA	GAATGT	GACTTT	CAT	3480
Qy	3737		ACAT	AT	TAT	TAG	CA	CCACT	GTCT	AC	CAG	CAC	CGT	GTAT	TG	ATG	ATG	ATG	ATG	ATG	3796
Db	3481		ACAT	AT	TAT	TAG	CA	CCACT	GTCT	AC	CAG	CAC	CGT	GTAT	TG	ATG	ATG	ATG	ATG	ATG	3540
Qy	3797		ACT	CAC	CT	CG	CCAC	CAAC	CCAG	ATAA	GTCT	GA	TG	ATG	ATG	ATG	ATG	ATG	ATG	ATG	3856
Db	3541		ACT	CAC	CT	CG	CCAC	CAAC	CCAG	ATAA	GTCT	GA	TG	ATG	ATG	ATG	ATG	ATG	ATG	ATG	3600
Qy	3857		CAT	CA	AG	AT	TTTT	TTTT	TTTT	TG	TTTT	TG	TTTT	TG	TTTT	TG	TTTT	TG	TTTT	TG	3916
Db	3601		CAT	CA	AG	AT	TTTT	TTTT	TTTT	TG	TTTT	TG	TTTT	TG	TTTT	TG	TTTT	TG	TTTT	TG	3660
Qy	3917		GAAT	TG	CT	TGA	ACT	TG	AG	CG	CGC	GAG	GT	TG	CAGT	G	AG	AT	CA	CG	3976
Db	3661		GAAT	TG	CT	TGA	ACT	TG	AG	CG	CGC	GAG	GT	TG	CAGT	G	AG	AT	CA	CG	3720
Qy	3977		AGC	CT	G	GGT	GC	AC	GAC	AG	ACT	TTG	CT	TG	GA	AAAA	AAAA	AAAA	AAAA	AAAA	4036
Db	3721		AGC	CT	G	GGT	GC	AC	GAC	AG	ACT	TTG	CT	TG	GA	AAAA	AAAA	AAAA	AAAA	AAAA	3780
Qy	4037		TTG	T	TTTT	TG	TTTT	TG	TTTT	TG	TTTT	TG	TTTT	TG	TTTT	TG	TTTT	TG	TTTT	TG	4096
Db	3781		TTG	T	TTTT	TG	TTTT	TG	TTTT	TG	TTTT	TG	TTTT	TG	TTTT	TG	TTTT	TG	TTTT	TG	3840
Qy	4097		TGG	AGT	GC	ACT	TGGT	CA	CT	TG	CA	AC	CTT	CA	CTT	CC	C	AGGTT	CA	AG	4156
Db	3841		TGG	AGT	GC	ACT	TGGT	CA	CT	TG	CA	AC	CTT	CA	CTT	CC	C	AGGTT	CA	AG	3900
Qy	4157		CTC	AT	G	CCT	CCG	AGT	AGT	CGG	ACT	GGA	CA	GAG	CA	TAG	CC	AG	CC	AT	4216
Db	3901		CTC	AT	G	CCT	CCG	AGT	AGT	CGG	ACT	GGA	CA	GAG	CA	TAG	CC	AG	CC	AT	3960
Qy	4217		TAA	TTTT	TAT	TTTT	TAGT	TAG	CAG	GGT	TTT	CAT	CAT	G	CTG	CC	CA	AG	CT	GT	4276
Db	3961		TAA	TTTT	TAT	TTTT	TAGT	TAG	CAG	GGT	TTT	CAT	CAT	G	CTG	CC	CA	AG	CT	GT	4020
Qy	4277		GAC	CT	CAG	TG	AT	CC	CA	CCT	CG	G	CCT	CC	CA	AA	G	TG	CT	GG	4336

4021	Db	GACCTCAGTGATCCACCACCTCGGCCTCCCAAAGTGTGGGNTATACAGCGTGAGCCA	4083
4337	Qy	CCGCACCAGCCGATTTTTTGGGTTTTTTGAGACAGGGTCCCACCTGTGTCACTTAGACTG	4399
4081	Db	CCGCACCAGCCGATTTTTTGGGTTTTTTGAGACAGGGTCCCACCTGTGTCACTTAGACTG	4140
4397	Qy	GAGTACAGTGATGGGATCATAGCTCACTGCAGAGCCTTGAAATCTCCAGSCTCAAGTGTCTC	4456
4141	Db		4200
4457	Qy	TCCTGCCCCAGCTTCTCAAGTAGTCTGGGACTATAGGCACAAGCCACAAACCTAGCTAAT	4516
4201	Db	TCCTGCCCCAGCTTCTCAAGTAGTCTGGGACTATAGGCACAAGCCACAAACCTAGCTAAT	4260
4517	Qy	TAAAAAAAATGTTTTTGTATAGATGGAGTCTCACTCACTATATGTGCCAGGCTGTCTT	4576
4261	Db	TAAAAAAAATGTTTTTGTATAGATGGAGTCTCACTCACTATATGTGCCAGGCTGTCTT	4320
4577	Qy	CAACTCTGTGTCTCACTCGAATCTCTCGCTCAGCTCCCAAAATGATGGATTCACAGC	4636
4321	Db	CAACTCTGTGTCTCACTCGAATCTCTCGCTCAGCTCCCAAAATGATGGATTCACAGC	4380
4637	Qy	GTGAGCCACTGCACCTGGCCTCAAGTATTTTGTATACAGTATAGTTGGATCCACACAAC	4696
4381	Db	GTGAGCCACTGCACCTGGCCTCAAGTATTTTGTATACAGTATAGTTGGATCCACACAAC	4440
4697	Qy	AGCTTATTTGGTTATTTTTTCCCTGTCTATCTGTGTTGAAATCCACAGCTCCACCACTTTTG	4756
4441	Db	AGCTTATTTGGTTATTTTTTCCCTGTCTATCTGTGTTGAAATCCACAGCTCCACCACTTTTG	4500
4757	Qy	GTTCTGTGACATTTCTGTAGTTAATTTACCTCTCTGCACITGTGTGAATTCCTGTGTTGTA	4816
4501	Db	GTTCTGTGACATTTCTGTAGTTAATTTACCTCTCTGCACITGTGTGAATTCCTGTGTTGTA	4560
4817	Qy	AAGTGGAGATGATAATATATGCTCACTATGATTTGTTTTGAAGATTTTATAGTCAGTCAGACAT	4876
4561	Db	AAGTGGAGATGATAATATATGCTCACTATGATTTGTTTTGAAGATTTTATAGTCAGTCAGACAT	4620
4877	Qy	TTGGGATGTTTTCTGCACATAGCAAGAGCCAAAATATATTTTTTATCTGTGTTAAAAT	4936
4621	Db	TTGGGATGTTTTCTGCACATAGCAAGAGCCAAAATATATTTTTTATCTGTGTTAAAAT	4680
4937	Qy	TATTTATATGACAAATGAGGAACGAGTGAATAGTGAAGAGGAGATCTTTCTCTGTCATC	4996
4681	Db	TATTTATATGACAAATGAGGAACGAGTGAATAGTGAAGAGGAGATCTTTCTCTGTCATC	4740
4997	Qy	ACTCGGGGTTTTTTTCTGTTTTTGTTTTTTGTGTTGAGACAGGCTCTCACTCTCTGTG	5056
4741	Db	ACTCGGGGTTTTTTTCTGTTTTTGTTTTTTGTGTTGAGACAGGCTCTCACTCTCTGTG	4800
5057	Qy	CCAGGCTGGAGTGCAATAGTGTCTATCACTGTCTCACTGCAGTCTTGACCTCCGGGGCTCA	5116
4801	Db	CCAGGCTGGAGTGCAATAGTGTCTATCACTGTCTCACTGCAGTCTTGACCTCCGGGGCTCA	4860
5117	Qy	AGTGATTCATGTGTGGCAGTTGATCTTTCTTAAAGTAAATGACAGCCAGGCACTGTGGC	5176
4861	Db	AGTGATTCATGTGTGGCAGTTGATCTTTCTTAAAGTAAATGACAGCCAGGCACTGTGGC	4920
5177	Qy	TCACGCTGTAAATCCCAACACTTTGGGAGACCGAGCGGTGGATCACTTGAGTTGGGA	5236
4921	Db	TCACGCTGTAAATCCCAACACTTTGGGAGACCGAGCGGTGGATCACTTGAGTTGGGA	4980
5237	Qy	GTTTCGAGACAGCTGACCAACCTTTGGGAGACCGAGCGGTGGATCACTTGAGTTGGGA	5296
4981	Db	GTTTCGAGACAGCTGACCAACCTTTGGGAGACCGAGCGGTGGATCACTTGAGTTGGGA	5040
5297	Qy	CTGGGCTGTGTGGCACACGGCTGTAAATCCAGCTACTCTCAGGAGGCTGAGCGAGGAATC	5356
5041	Db	CTGGGCTGTGTGGCACACGGCTGTAAATCCAGCTACTCTCAGGAGGCTGAGCGAGGAATC	5100
5357	Qy	ACTTGAACCCAGGAGCGGAGTTGCACTGAGCCAGATTTGCGCCATTGCACTCCAGCCT	5416
5101	Db	ACTTGAACCCAGGAGCGGAGTTGCACTGAGCCAGATTTGCGCCATTGCACTCCAGCCT	5160

QY	9797	GGCAATGACAGCTGACAGAGAAATGATCTGAGGGTCTTAGTGGCCCCCAGAGAGCAGCTGA	9856
DB	9541	GGCAATGACAGCTGACAGAGAAATGATCTGAGGGTCTTAGTGGCCCCCAGAGAGCAGCTGA	9600
QY	9857	TGGGAGGGGTTAGGATAGAGAGGAAACCCAGAAAGGGCAGAAAGATGCTGGGAAAGGGG	9916
DB	9601	TGGGAGGGGTTAGGATAGAGAGGAAACCCAGAAAGGGCAGAAAGATGCTGGGAAAGGGG	9660
QY	9917	AATAGAGTGTATGAGGAGTGGGATGGAGATACAGAAACGGAGAGACAGCCAGACCACTG	9976
DB	9661	AATAGAGTGTATGAGGAGTGGGATGGAGATACAGAAACGGAGAGACAGCCAGACCACTG	9720
QY	9977	TATTAATAGTCTCCATTAAGCCGCCCACTTTAGGTTAGACAGATGAGAGAGAGAG	10036
DB	9721	TATTAATAGTCTCCATTAAGCCGCCCACTTTAGGTTAGACAGATGAGAGAGAGAG	9780
QY	10037	AGAGAGTCTCAGAAAGAGCAGAAACCCAAAGAGAGACACAGATGGAGGGAGGGAGAA	10096
DB	9781	AGAGAGTCTCAGAAAGAGCAGAAACCCAAAGAGAGACACAGATGGAGGGAGGGAGAA	9840
QY	10097	GATGGGGATGGCAGGGAGACAGAGATCAGTTGACAGGAACAGAGATGATAGAGACCA	10156
DB	9841	GATGGGGATGGCAGGGAGACAGAGATCAGTTGACAGGAACAGAGATGATAGAGACCA	9900
QY	10157	GAGAGGAGAGAGGTACAGAGACTCAGAGAGAGAGATCTCGAGAGACACAGACAGAGA	10216
DB	9901	GAGAGGAGAGAGGTACAGAGACTCAGAGAGAGAGATCTCGAGAGACACAGAGACAGAGA	9960
QY	10217	TGGGAAAGGGCGGAGAAATGACAGGAGGAGGAGGAGAGAGCTCTCTAGGTTTACTTCAG	10276
DB	9961	TGGGAAAGGGCGGAGAAATGACAGGAGGAGGAGGAGAGAGCTCTCTAGGTTTACTTCAG	10020
QY	10277	GCCCCAAAGCCCTAGCTGGAGAGAGAGCCCGCTGGGAAGGTACAGAGTGGAGACCGAC	10336
DB	10021	GCCCCAAAGCCCTAGCTGGAGAGAGAGCCCGCTGGGAAGGTACAGAGTGGAGACCGAC	10080
QY	10337	AAGCAGAGAGAGAGCCCACTGGCTGGGTTGCCCCACCTCCAGCACCAGGATGGG	10396
DB	10081	AAGCAGAGAGAGAGCCCACTGGCTGGGTTGCCCCACCTCCAGCACCAGGATGGG	10140
QY	10397	GAAACGAGGGAGCCATGAGCTCGGCTCTGCACCCCATCCACCCCACTTCCTGCAGCAA	10456
DB	10141	GAAACGAGGGAGCCATGAGCTCGGCTCTGCACCCCATCCACCCCACTTCCTGCAGCAA	10200
QY	10457	CCTGAAGCCAGGGATGTGGAGAGCCCGCTCAGCGTGGAGGTGGACTGGGACCGGAC	10516
DB	10201	CCTGAAGCCAGGGATGTGGAGAGCCCGCTCAGCGTGGAGGTGGGACTGGGACCGGAC	10260
QY	10517	CTCCGCAACGACTTCATGGGGGCCATGCTCTTTGGGCTCTCGAGCTGCTCAAGGGGCC	10576
DB	10261	CTCCGCAACGACTTCATGGGGGCCATGCTCTTTGGGCTCTCGAGCTGCTCAAGGGGCC	10320
QY	10577	CGTGATGGCTGGTCAGGAGCAGGGCTGGGCTGGGATGGGAGCGCAATATACCATCT	10636
DB	10321	CGTGATGGCTGGTCAGGAGCAGGGCTGGGCTGGGATGGGAGCGCAATATACCATCT	10380
QY	10637	CCATCTGTGTGTCTCTCTCAGGCACTGTCTTCCCTCTGCTCCCTCCAGAGATGC	10696
DB	10381	CCATCTGTGTGTCTCTCTCAGGCACTGTCTTCCCTCTGCTCCCTCCAGAGATGC	10440
QY	10697	GCAC	10756
DB	10441	GCAC	10500
QY	10757	ATTCT	10816
DB	10501	ATTCT	10560
QY	10817	TCTCTTCCATCTGT	10876
DB	10561	TCTCTTCCATCTGT	10620

QY	10877	TCTCCCATGGTGGCCCATCCCGCTGCCGCTCTGGTCTCCGCTGTATGTACAGGTAC	10936
DB	10621	TCTCCCATGGTGGCCCATCCCGCTGCCGCTCTGGTCTCCGCTGTATGTACAGGTAC	10680
QY	10937	AAGTTACTGAACACAGGAGGAGGCGAGTATTACAATGTGCGGTGGCCGATGTGCAAC	10996
DB	10681	AAGTTACTGAACACAGGAGGAGGCGAGTATTACAATGTGCGGTGGCCGATGTGCAAC	10740
QY	10997	TGCAGCTCTCTCCAGAAAGTTGAGGTACCCAGACCTGGCTTCTCAAGGGAGCCAGCC	11056
DB	10741	TGCAGCTCTCTCCAGAAAGTTGAGGTACCCAGACCTGGCTTCTCAAGGGAGCCAGCC	10800
QY	11057	CAGCTCTCCACGCTTCAGAGCTGGCCCTTCTTCCACCCCTCAGTGCCTGGTCTCTGG	11116
DB	10801	CAGCTCTCCACGCTTCAGAGCTGGCCCTTCTTCCACCCCTCAGTGCCTGGTCTCTGG	10860
QY	11117	GACTACAGTTCACAGAACCTTAGAGCTCCCTCTCTCTCTCTCTCTCTCTCTCTCTCT	11176
DB	10861	GACTACAGTTCACAGAACCTTAGAGCTCCCTCTCTCTCTCTCTCTCTCTCTCTCTCT	10920
QY	11177	CCAGGCTCTGATGGGAATATAGTTCTCTATCTATCGCCATGGCTTCAGGGTACTAGGGG	11236
DB	10921	CCAGGCTCTGATGGGAATATAGTTCTCTATCTATCGCCATGGCTTCAGGGTACTAGGGG	10980
QY	11237	CACAGCCCTCTGTTAGGGCGATCCCTGCACTCTCTGGGACCTGACTCTCTCTCTCT	11296
DB	10981	CACAGCCCTCTGTTAGGGCGATCCCTGCACTCTCTGGGACCTGACTCTCTCTCTCT	11040
QY	11297	TTTCTCCAGGCTGTAACTACCCCTGGAAATGATAGGTAGTAGAGTACAGGAGGCTT	11356
DB	11041	TTTCTCCAGGCTGTAACTACCCCTGGAAATGATAGGTAGTAGAGTACAGGAGGCTT	11100
QY	11357	GATGAGGAGGCTTTTGGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT	11416
DB	11101	GATGAGGAGGCTTTTGGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT	11160
QY	11417	CAATTCCTCCACATGAGTTGAGCACACATTTGTGTAGGCTGTCTGTGTGTGTGAA	11476
DB	11161	CAATTCCTCCACATGAGTTGAGCACACATTTGTGTAGGCTGTCTGTGTGTGTGAA	11220
QY	11477	TATTCAGGATCCAGAGATGAATCTGACCTCAAGCAACTCTCCAGGTAGGAGACACAGT	11536
DB	11221	TATTCAGGATCCAGAGATGAATCTGACCTCAAGCAACTCTCCAGGTAGGAGACACAGT	11280
QY	11537	CACAGATCTTAAATACAGGAAGATGTCTAAATAGAGGTAGCCAGGAGGACTGAAGA	11596
DB	11281	CACAGATCTTAAATACAGGAAGATGTCTAAATAGAGGTAGCCAGGAGGACTGAAGA	11340
QY	11597	GGCTAACGAGGACATAATCCAGCTGGGGAGGGTGTGAGGAGGACTTCCCTGAGG	11656
DB	11341	GGCTAACGAGGACATAATCCAGCTGGGGAGGGTGTGAGGAGGACTTCCCTGAGG	11400
QY	11657	AGGTGAGGCTGAATTTGATTTTGAAGTTTAAATTTTAAATTTTAAATTTTAAATTTT	11716
DB	11401	AGGTGAGGCTGAATTTGATTTTGAAGTTTAAATTTTAAATTTTAAATTTTAAATTTT	11460
QY	11717	ATTTTATTTTATTTTCTGTGCGCCAGGCTGGAGTGAATGGCACAATCTCGGCTCACCTG	11776
DB	11461	ATTTTATTTTATTTTCTGTGCGCCAGGCTGGAGTGAATGGCACAATCTCGGCTCACCTG	11520
QY	11777	CAACCTCCAGCTCCCGGTTCAAGCAATTTCTTTGCTCAGCCCTCTGAGTAGCTGGAT	11836
DB	11521	CAACCTCCAGCTCCCGGTTCAAGCAATTTCTTTGCTCAGCCCTCTGAGTAGCTGGAT	11580
QY	11837	TACAGTGACCGCCACACACCCAGCTAAATTTTATTTTATTTTATTTTATTTTATTTT	11896
DB	11581	TACAGTGACCGCCACACACCCAGCTAAATTTTATTTTATTTTATTTTATTTTATTTT	11640
QY	11897	TGSCCATGTGGCCAGGCTGATCTCAAACTCCCAAACTCAGGTGATCCGCTTGGC	11956
DB	11641	TGSCCATGTGGCCAGGCTGATCTCAAACTCCCAAACTCAGGTGATCCGCTTGGC	11700
QY	11957	CTCCCAAGTGTGGGATTTACAGGATGAGCCACTGCGGCCGACCGATTTCTTGTGTTT	12016

Qy	14177	TAGGTTGGTGTGTGCTGTGTGGCTCAGAGCACTCTCCACAGATTCAGCAGGCACCA	14236
Db	13921	TAGGTTGGTGTGTGCTGTGTGGCTCAGAGCACTCTCCACAGATTCAGCAGGCACCA	13980
Qy	14237	CTTAATATTACCAATGAACACCACTCTGTGTGCAAGCCCTCAGCTAGGTAGTGGGCTAAC	14296
Db	13981	CTTAATATTACCAATGAACACCACTCTGTGTGCAAGCCCTCAGCTAGGTAGTGGGCTAAC	14040
Qy	14297	AACACAGCAACACAGAACAGCCCTGATTATTATTATTATTATTATTATTATTATTATT	14356
Db	14041	AACACAGCAACACAGAACAGCCCTGATTATTATTATTATTATTATTATTATTATTATT	14100
Qy	14357	TATTATTATTATTATTATTATTATTATTATTATTATTATTATTATTATTATTATTATT	14416
Db	14101	TATTATTATTATTATTATTATTATTATTATTATTATTATTATTATTATTATTATTATT	14160
Qy	14417	TGCAGTGGAGGATCTCAGCTCAGTCACTGCAACCTCTGCCCTCCCGGGTCAAGCGATTCTCT	14476
Db	14161	TGCAGTGGAGGATCTCAGCTCAGTCACTGCAACCTCTGCCCTCCCGGGTCAAGCGATTCTCT	14220
Qy	14477	GCCTTGGCTCCCAAGTAGCTGGGACTACAGGCACTGTCGCCACCATGTCCTACTAATTTT	14536
Db	14221	GCCTTGGCTCCCAAGTAGCTGGGACTACAGGCACTGTCGCCACCATGTCCTACTAATTTT	14280
Qy	14537	ATATTGCTAGTAGAGTAGGGCTTCGCCATGTTGCCAGGCTGTGTTTGAACCTCTGACC	14596
Db	14281	ATATTGCTAGTAGAGTAGGGCTTCGCCATGTTGCCAGGCTGTGTTTGAACCTCTGACC	14340
Qy	14597	TCAGGTGATCTGCCACCTCGCCCTCCCAAGTGTGGGATTACAGGCATGAGCCACCGC	14656
Db	14341	TCAGGTGATCTGCCACCTCGCCCTCCCAAGTGTGGGATTACAGGCATGAGCCACCGC	14400
Qy	14657	ACCAGCCCTCAACAAATATTATTATTAGTCTCAATGAGTAGGACAGTGTACTGTCTT	14716
Db	14401	ACCAGCCCTCAACAAATATTATTATTAGTCTCAATGAGTAGGACAGTGTACTGTCTT	14460
Qy	14717	AGCGAACAAACAGACCCCTGCCCTTAGGGAGCTCACAGGAGAAAGCAGATAGTCAACA	14776
Db	14461	AGCGAACAAACAGACCCCTGCCCTTAGGGAGCTCACAGGAGAAAGCAGATAGTCAACA	14520
Qy	14777	GATAGATGTAAATTAATAAGTAATAAGTGCAGGAAGTCTGTCCATGTGTGACCAAGG	14836
Db	14521	GATAGATGTAAATTAATAAGTAATAAGTGCAGGAAGTCTGTCCATGTGTGACCAAGG	14580
Qy	14837	GGTGGTAAGAGAGGATCTGACCCAGTTTAAAGTCAAGGCGAGCCCTCTATGAGTGAT	14896
Db	14581	GGTGGTAAGAGAGGATCTGACCCAGTTTAAAGTCAAGGCGAGCCCTCTATGAGTGAT	14640
Qy	14897	GCTTGAGTCAAGGTCTAAAGGTGTTTGGGAGACAACTAGGAGGAAAGGGAGGGAGAG	14956
Db	14641	GCTTGAGTCAAGGTCTAAAGGTGTTTGGGAGACAACTAGGAGGAAAGGGAGGGAGAG	14700
Qy	14957	CTTTACAGGAAGACCTAACCGCACATCCAGAGCCCTCAGGTGGAGGGAGGACAAATGAG	15016
Db	14701	CTTTACAGGAAGACCTAACCGCACATCCAGAGCCCTCAGGTGGAGGGAGGACAAATGAG	14760
Qy	15017	TGTCAAGCCAGGCTGGTGGACCACTGAGCCTGGGAGAGAGAAACAACTGCACTGTC	15076
Db	14761	TGTCAAGCCAGGCTGGTGGACCACTGAGCCTGGGAGAGAGAAACAACTGCACTGTC	14820
Qy	15077	AGTCTCAGCCCTGCTCAGTCAATGTGGAATAAATCTTAAACAGAGGGAGCAGTTA	15136
Db	14821	AGTCTCAGCCCTGCTCAGTCAATGTGGAATAAATCTTAAACAGAGGGAGCAGTTA	14880
Qy	15137	AAGGGTTTACAAAGCATAGGGAGACATGACCTGGTTTATTATTATTATTATTATTATT	15196
Db	14881	AAGGGTTTACAAAGCATAGGGAGACATGACCTGGTTTATTATTATTATTATTATTATT	14940
Qy	15197	TGCCTGCTAGTAGAGAAATGCAATTAGAAAGGGAGCCGCTCATTGTAGAGGACAAAGTGTG	15256
Db	14941	TGCCTGCTAGTAGAGAAATGCAATTAGAAAGGGAGCCGCTCATTGTAGAGGACAAAGTGTG	15000

Qy	15257	GAAGCTGTGACAGCAGCTTAGTCTTGGGCCCCCTCCTCGGGGGCCGAGGAGGAAAAAGG	15316
Db	15001	GAAGCTGTGACAGCAGCTTAGTCTTGGGCCCCCTCCTCGGGGGCCGAGGAGGAAAAAGG	15060
Qy	15317	TAGAGAAGGACCCCTAGCTGAAACCCAGGTGTGTCTCCTGGACTGGCAGCAACCATGTCA	15376
Db	15061	TAGAGAAGGACCCCTAGCTGAAACCCAGGTGTGTCTCCTGGACTGGCAGCAACCATGTCA	15120
Qy	15377	CCAGAGAGCTTTTACACATAACGATTTCTCAGGTCCACCCAGGATTTATAGAGTTAGAA	15436
Db	15121	CCAGAGAGCTTTTACACATAACGATTTCTCAGGTCCACCCAGGATTTATAGAGTTAGAA	15180
Qy	15437	AATCTGSCAGTGGGACCCAGCAATCTGTTTTACCAAAACCTCTAGGGAATTCGGCTTAG	15496
Db	15181	AATCTGSCAGTGGGACCCAGCAATCTGTTTTACCAAAACCTCTAGGGAATTCGGCTTAG	15240
Qy	15497	AGGTAAGAACCAACAGATTTCTAGAGCTGACCTTGGGTTCATTTCTGGCTCTGTCC	15556
Db	15241	AGGTAAGAACCAACAGATTTCTAGAGCTGACCTTGGGTTCATTTCTGGCTCTGTCC	15300
Qy	15557	TTTACCTGTGTGTGACTTGGGCAAGTTACTTTAAACGTCTCTGTGTAGTCTCTCTCTCT	15616
Db	15301	TTTACCTGTGTGTGACTTGGGCAAGTTACTTTAAACGTCTCTGTGTAGTCTCTCTCTCT	15360
Qy	15617	GTAATATGGAACAGATAGCAGGCTTTTCTGGAACACGATATGATAAGCTATCTTAAAAA	15676
Db	15361	GTAATATGGAACAGATAGCAGGCTTTTCTGGAACACGATATGATAAGCTATCTTAAAAA	15420
Qy	15677	AAAAAGAGAAAAAAGAGCTAAGTTGTTTGTGTAATAATAATAAACCTCCAGGCTAT	15736
Db	15421	AAAAAGAGAAAAAAGAGCTAAGTTGTTTGTGTAATAATAATAAACCTCCAGGCTAT	15480
Qy	15737	GGGAGTCAAGAAAAATTAAAGCAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG	15796
Db	15481	GGGAGTCAAGAAAAATTAAAGCAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG	15540
Qy	15797	AGCGATTCTCATCT	15856
Db	15541	AGCGATTCTCATCT	15600
Qy	15857	TGTGTAAGTCTAACTGCTCTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT	15916
Db	15601	TGTGTAAGTCTAACTGCTCTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT	15660
Qy	15917	GCCCT	15976
Db	15661	GCCCT	15720
Qy	15977	TCTTCCGGGGGAGTCCAGGACGCTGCAATCTCCGACTTCCAGCTTCTCTCTCTCTCTCT	16036
Db	15721	TCTTCCGGGGGAGTCCAGGACGCTGCAATCTCCGACTTCCAGCTTCTCTCTCTCTCTCT	15780
Qy	16037	GAAGAGCAGTTTGGGAGGTTGATTCCTGGGTTCTGGGGAAGGAGGAGGAGGAGGAGG	16096
Db	15781	GAAGAGCAGTTTGGGAGGTTGATTCCTGGGTTCTGGGGAAGGAGGAGGAGGAGGAGG	15840
Qy	16097	TGGGAGGTCAGATTTCTGTTTCTTAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG	16156
Db	15841	TGGGAGGTCAGATTTCTGTTTCTTAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG	15900
Qy	16157	TGCATCTTCAAAATATGTTAGTTGGGCTTTCAGGTTCTCTGGAGAGGAGGAGGAGGAGG	16216
Db	15901	TGCATCTTCAAAATATGTTAGTTGGGCTTTCAGGTTCTCTGGAGAGGAGGAGGAGGAGG	15960
Qy	16217	ATGTGACACTCTCTTGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG	16276
Db	15961	ATGTGACACTCTCTTGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG	16020
Qy	16277	TGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG	16336
Db	16021	TGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG	16080
Qy	16337	CCACTGGGTTCCCAACATGAGCTGGGCTTTTGGAACTGTGGCAGATAGGTGATGCTGGCC	16396

Db	16081		CCA	CTGGG	TTCCCA	ATG	ACTGG	CCCTTTT	GGA	ACTGTG	CGCATAG	TCGTG	CGCC	16140	
Qy	16397	GAG	CGCAGG	GGGCTCT	GATG	AGCTCTA	CGCCATCA	AGATCTT	GAAAAAG	CACGTG	ATCGTC	G	16456		
Db	16141	GAG	CGCAGG	GGCTCTG	ATG	AGCTCTA	CGCCATCA	AGATCTT	GAAAAAG	CACGTG	ATCGTC	G	16200		
Qy	16457	CAG	GACGAC	GANTG	FGACTG	CA	CGCTGTG	GAGAAJ	ACGTGTG	CTG	CGCTG	TGGGGGG	CGG	16516	
Db	16201	CAG	GACGAC	GANTG	FGACTG	CA	CGCTGTG	GAGAAJ	ACGTGTG	CTG	CGCTG	TGGGGGG	CGG	16260	
Qy	16517	GGT	CCTGG	CGCGCG	CCCACTT	CTC	ACCCAG	CTCCACTT	CCACCTT	CCAGAC	CCCCGGTA	16576			
Db	16261	GGT	CCTGG	CGCGCG	CCCACTT	CTC	ACCCAG	CTCCACTT	CCACCTT	CCAGAC	CCCCGGTA	16320			
Qy	16577	AGG	ATGAG	GGGGCG	GAGGCTGT	CTC	CGGGCC	TGCCCTT	ATTCAC	AGTTCTG	GACATCTGC	16636			
Db	16321	AGG	ATGAG	GGGGCG	GAGGCTGT	CTC	CGGGCC	TGCCCTT	ATTCAC	AGTTCTG	GACATCTGC	16380			
Qy	16637	GTT	GGGATTT	CTG	AGTTT	PAGG	CGAGCA	AGAACTTTT	TGCTCTCT	GAGTGGG	CGAGGC	16696			
Db	16381	GTT	GGGATTT	CTG	AGTTT	PAGG	CGAGCA	AGAACTTTT	TGCTCTCT	GAGTGGG	CGAGGC	16440			
Qy	16697	CAG	CGGATTT	GTCTC	TAC	GGGGCG	TGGCCGG	GGGGGGT	CTTTG	GGGGGGT	GTGCCAG	16756			
Db	16441	CAG	CGGATTT	GTCTC	TAC	GGGGCG	TGGCCGG	GGGGGGT	CTTTG	GGGGGGT	GTGCCAG	16500			
Qy	16757	GCG	AAGG	GA	CTCAT	CGGGGG	CGTGG	CCAGGG	CGAGGG	GGCTCAA	CGAGGG	CGAGSC	CGGG	16816	
Db	16501	GCG	AAGG	GA	CTCAT	CGGGGG	CGTGG	CCAGGG	CGAGGG	GGCTCAA	CGAGGG	CGAGSC	CGGG	16560	
Qy	16817	TGG	AGGGG	GGCTCCT	CGGGGG	CGTGG	CCAGGG	ACTTCAT	CGGGGG	CGTGG	CCAGGCA	16876			
Db	16561	TGG	AGGGG	GGCTCCT	CGGGGG	CGTGG	CCAGGG	ACTTCAT	CGGGGG	CGTGG	CCAGGCA	16620			
Qy	16877	GAG	GGGCTTT	TCG	CGGGGG	CGTGT	CA	AGG	CGGATG	AAATCTTT	TGGGGGG	TGTTT	PAGG	16936	
Db	16621	GAG	GGGCTTT	TCG	CGGGGG	CGTGT	CA	AGG	CGGATG	AAATCTTT	TGGGGGG	TGTTT	PAGG	16680	
Qy	16937	GCG	GGCTTT	TGCAG	GCGATGG	GATCA	TTAAT	AGCGGTGG	CCAGG	CA	AGTTGG	CGTCTT	G	16996	
Db	16681	GCG	GGCTTT	TGCAG	GCGATGG	GATCA	TTAAT	AGCGGTGG	CCAGG	CA	AGTTGG	CGTCTT	G	16740	
Qy	16997	GCG	CGAGG	CCAGG	CAGACG	AGATTA	TGAAT	CAG	CGTATCC	AGG	CAGGTAG	ATCTT	CGG	17056	
Db	16741	GCG	CGAGG	CCAGG	CAGACG	AGATTA	TGAAT	CAG	CGTATCC	AGG	CAGGTAG	ATCTT	CGG	16800	
Qy	17057	AGG	CGGTGTG	CGGG	CGGATG	AGCTCCT	CGGGGG	CGTGG	CCAGG	CGGTG	AGTTCTT	CGGTG	17116		
Db	16801	AGG	CGGTGTG	CGGG	CGGATG	AGCTCCT	CGGGGG	CGTGG	CCAGG	CGGTG	AGTTCTT	CGGTG	16860		
Qy	17117	GCA	TGGCTGG	CCAGG	AGTGAAT	GGGTCTC	CGGAG	GTGTG	CTGA	AGCGGTG	AGTTCTT	CGGTG	17176		
Db	16861	GCA	TGGCTGG	CCAGG	AGTGAAT	GGGTCTC	CGGAG	GTGTG	CTGA	AGCGGTG	AGTTCTT	CGGTG	16920		
Qy	17177	GGG	CGTGG	CCAGG	TGGATGG	GTCTT	TGGGGG	AGTGG	CCAGAT	CGCTTTT	CTTCTT	GGGG	17236		
Db	16921	GGG	CGTGG	CCAGG	TGGATGG	GTCTT	TGGGGG	AGTGG	CCAGAT	CGCTTTT	CTTCTT	GGGG	16980		
Qy	17237	AGC	TTGGTCTT	GATGG	CTGT	AGCC	AGTCTCT	TG	GAAATTTT	CAG	CAAAAGG	GGCA	CAGTGG	17296	
Db	16981	AGC	TTGGTCTT	GATGG	CTGT	AGCC	AGTCTCT	TG	GAAATTTT	CAG	CAAAAGG	GGCA	CAGTGG	17040	
Qy	17297	AGA	GGGTG	GGCTCTT	C	TAGTGG	GGCTGCC	CAGAA	TTTGG	GGCTCCG	AGTGAG	CGGGGT	CTATC	17356	
Db	17041	AGA	GGGTG	GGCTCTT	C	TAGTGG	GGCTGCC	CAGAA	TTTGG	GGCTCCG	AGTGAG	CGGGGT	CTATC	17100	
Qy	17357	TTT	TGGATTCT	GACTGA	AGGACACAT	CAGAAA	CAGGACAT	TA	TTTCC	TAGATTTG	CGAC	17416			
Db	17101	TTTT	TGATTCT	GACTGA	AGGACACAT	CAGAAA	CAGGACAT	TA	TTTCC	TAGATTTG	CGAC	17160			
Qy	17417	TTA	GGGCG	CAGAG	AGT	CAGAACCT	TG	CAAGATTTT	TAAG	AGGGGG	GTGACTTT	TA	CTTCC	AGGGG	17476

17161	TTAGGGGCGAGAGCTCAGAACCTCGCAAGATTTTAAAGAGGGCGTGACTTTACTTCCACGGGG	17220
17477	CTCCGAATGAGAGTGGCGACCCACCTCGGATTTAAAATATATGATGAGCAACTTTGATTCC	17536
17221	CTCCGAATGAGAGTGGCGACCCACCTCGGATTTAAAATATATGATGAGCAACTTTGATTCC	17280
17537	TTTTTTTTTTTTTTGAGAAGAGTTAGCTCTTGTCGCCCAAGGCTGAGATGCAATGGCGCGA	17596
17281	TTTTTTTTTTTTTTGAGAAGAGTTAGCTCTTGTCGCCCAAGGCTGAGATGCAATGGCGCGA	17340
17597	TCTCGGCTCACTGCAACCTCCGCTCCCGGTTTAAAGCAATTTCTCCCGTCTCAGGCTCCT	17656
17341	TCTCGGCTCACTGCAACCTCCGCTCCCGGTTTAAAGCAATTTCTCCCGTCTCAGGCTCCT	17400
17657	GAGTAGCTGGGATTTACAGGCTCCCGCCACACACACTCAGCTGATTTTTGTATTTTAGTAG	17716
17401	GAGTAGCTGGGATTTACAGGCTCCCGCCACACACACTCAGCTGATTTTTGTATTTTAGTAG	17460
17717	AGACCGGTTTTCGCACAGTTGGCCACGGCTGGTCTGGAACTCCTGACCTCAGTGATCCAC	17776
17461	AGACCGGTTTTCGCACAGTTGGCCACGGCTGGTCTGGAACTCCTGACCTCAGTGATCCAC	17520
17777	CCGCTTCGGCCTCCCAAGCTCGGATTTACAGGCTGAGCCACCAACGCCACAGCTGCAC	17836
17521	CCGCTTCGGCCTCCCAAGCTCGGATTTACAGGCTGAGCCACCAACGCCACAGCTGCAC	17580
17837	TTTGATTTCTTAGTAGGAAGCCAGAA TTGCAATCTGTGTGAGCTGGCTGTGGAAAGAGATT	17896
17581	TTTGATTTCTTAGTAGGAAGCCAGAA TTGCAATCTGTGTGAGCTGGCTGTGGAAAGAGATT	17640
17897	TTGGTGTTCGGGATTTTCGAGCGAATTTGGTGGGCTTCAGTCTTTCAATCTCGAAGCGGG	17956
17641	TTGGTGTTCGGGATTTTCGAGCGAATTTGGTGGGCTTCAGTCTTTCAATCTCGAAGCGGG	17700
17957	GCCAGAACACGTGGTCTGATAGTTGGCGGTGGCTTGGCGGGTGGAGATTTCTGAGGTAGCA	18016
17701	GCCAGAACACGTGGTCTGATAGTTGGCGGTGGCTTGGCGGGTGGAGATTTCTGAGGTAGCA	17760
18017	GGATTAGACACTTAGGGCCCTCCACGGGATGTGGCTAGGTGCTCTGAA TTTCTCGTTGGG	18076
17761	GGATTAGACACTTAGGGCCCTCCACGGGATGTGGCTAGGTGCTCTGAA TTTCTCGTTGGG	17820
18077	TGCATCTGGAACCTTCCACGTCTGTCTCAGTGATCAGGAAAGAAATTTCTCTACTCTGG	18136
17821	TGCATCTGGAACCTTCCACGTCTGTCTCAGTGATCAGGAAAGAAATTTCTCTACTCTGG	17880
18137	GTAGATGGATCCCGCTCTTAAGCCCAATGCACTTCTCCCGCAGACCGCTGTATTTCTGTA	18196
17881	GTAGATGGATCCCGCTCTTAAGCCCAATGCACTTCTCCCGCAGACCGCTGTATTTCTGTA	17940
18197	TGGAGTAGCTCACCGGGGAGACTTGATGTACCAATTCACAGCTGGCGAAGTTTAAAG	18256
17941	TGGAGTAGCTCACCGGGGAGACTTGATGTACCAATTCACAGCTGGCGAAGTTTAAAG	18000
18257	AGCCCCATGACGGTCTCGGCCAAACAGAAATGTTCGGGTGGTGGAAAGGGGGCAG	18316
18001	AGCCCCATGACGGTCTCGGCCAAACAGAAATGTTCGGGTGGTGGAAAGGGGGCAG	18060
18317	GATCCAGCACTGACCTTTGAGCTTCCCAACCCCGCTCTCCAGGTTCTACGCGCA	18376
18061	GATCCAGCACTGACCTTTGAGCTTCCCAACCCCGCTCTCCAGGTTCTACGCGCA	18120
18377	GAAATCGTATCGGCTCTTTCTTTCAATCAATCAGGCGCATCATCTACAGGTGAGCAGCC	18436
18121	GAAATCGTATCGGCTCTTTCTTTCAATCAATCAGGCGCATCATCTACAGGTGAGCAGCC	18180
18437	CCAGGAATTTTCGTGGAGAAATTCAGCCCTTCGGAAAGGGAATTTGAAATATGTGCT	18496
18181	CCAGGAATTTTCGTGGAGAAATTCAGCCCTTCGGAAAGGGAATTTGAAATATGTGCT	18240
18497	CTAGACTGTGAATCAACACTTCTTGTGAAATTTCTTGCCTTGCCTTGCCTTGCCTTGCCT	18556
18241	CTAGACTGTGAATCAACACTTCTTGTGAAATTTCTTGCCTTGCCTTGCCTTGCCTTGCCT	18300

QY	18557	GACCTGAAGCTGGACAATGTGTGATGCTGGATGCTGAGGGACACATCAAGATCACTGACTTT	18616
DB	18301	GACCTGAAGCTGGACAATGTGTGATGCTGGATGCTGAGGGACACATCAAGATCACTGACTTT	18360
QY	18617	GGCATGTGTAAAGGAGAAAGCTCTTCCCGGGAGCAGCAACCCGACACTTCTCGGGAGCCCG	18676
DB	18361	GGCATGTGTAAAGGAGAAAGCTCTTCCCGGGAGCAGCAACCCGACACTTCTCGGGAGCCCG	18420
QY	18677	GACTACATAGCCCCGGAGGTAACCCCAAACCTGTGTCTCTGGTCAACGCTTTGAGATCCCT	18736
DB	18421	GACTACATAGCCCCGGAGGTAACCCCAAACCTGTGTCTCTGGTCAACGCTTTGAGATCCCT	18480
QY	18737	TAGAGGTTGACTGATGGTCCAGTATTACACAGGTTGAGGCTGAGCCCTCAGACCTTG	18796
DB	18481	TAGAGGTTGACTGATGGTCCAGTATTACACAGGTTGAGGCTGAGCCCTCAGACCTTG	18540
QY	18797	TCATGAGTTGTGGCTTCTTACACAGCCAGTGGTTCCTCCAGCCTCCAGCACAGGTGAGC	18856
DB	18541	TCATGAGTTGTGGCTTCTTACACAGCCAGTGGTTCCTCCAGCCTCCAGCACAGGTGAGC	18600
QY	18857	TTGGCACTGAGCTGCCAGGTGGGCCAGCTGGGTCTCTAAATAGTTAAGTTGGGCGACGA	18916
DB	18601	TTGGCACTGAGCTGCCAGGTGGGCCAGCTGGGTCTCTAAATAGTTAAGTTGGGCGACGA	18660
QY	18917	CCTGTGGTGAATGTTCCAGGAGTGGGACAGCTCGTAGGAATTCCTCAAGTAGGACTG	18976
DB	18661	CCTGTGGTGAATGTTCCAGGAGTGGGACAGCTCGTAGGAATTCCTCAAGTAGGACTG	18720
QY	18977	ACCTGGATCTTCTGAGAGGGGCGAGACGATTTCTAGTGTACTCTGAGTGGGTGTGGCC	19036
DB	18721	ACCTGGATCTTCTGAGAGGGGCGAGACGATTTCTAGTGTACTCTGAGTGGGTGTGGCC	18780
QY	19037	TGTCCCTGCCAACAATGTCGGAATGTCGGAATCTTCTGTAATACTTTTAAACTGGGAGG	19096
DB	18781	TGTCCCTGCCAACAATGTCGGAATGTCGGAATCTTCTGTAATACTTTTAAACTGGGAGG	18840
QY	19097	GCTCTCCCTGGAGTATTCAGTTGGATGGAAGCTTATTCCTGTGTGACGTGTTTCTCT	19156
DB	18841	GCTCTCCCTGGAGTATTCAGTTGGATGGAAGCTTATTCCTGTGTGACGTGTTTCTCT	18900
QY	19157	GATGTAACTGTACTGGAATCTTGTGCTGATTTTTCAAGAGGCGAGGATCAGCTGGGCG	19216
DB	18901	GATGTAACTGTACTGGAATCTTGTGCTGATTTTTCAAGAGGCGAGGATCAGCTGGGCG	18960
QY	19217	GGTGGCTCACACTGTAAATCCAGCACTTTGGAGGCTTGAGCGAGGTGGATCATTGAGG	19276
DB	18961	GGTGGCTCACACTGTAAATCCAGCACTTTGGAGGCTTGAGCGAGGTGGATCATTGAGG	19020
QY	19277	TCAGGAGTTTGAGACCGAGCTGGCCAAACATGGTGAACCTCATCTCTAAACAAATTAAC	19336
DB	19021	TCAGGAGTTTGAGACCGAGCTGGCCAAACATGGTGAACCTCATCTCTAAACAAATTAAC	19080
QY	19337	AAATTAGCCGGCGTGGTGGATGCGCTGTAATCCAGCTATTTCGGGAGGCTGAGGCGAG	19396
DB	19081	AAATTAGCCGGCGTGGTGGATGCGCTGTAATCCAGCTATTTCGGGAGGCTGAGGCGAG	19140
QY	19397	GAGAAATCGCTTGAACCGGGGAGGCGGAGGTTGCAGTGAGCTGAGATCAACACTGCACT	19456
DB	19141	GAGAAATCGCTTGAACCGGGGAGGCGGAGGTTGCAGTGAGCTGAGATCAACACTGCACT	19200
QY	19457	CCAGCCTGGGTGACAGAGATTAACCTTCAATCTCAATTAACCTCAATTAACCTCAATTAAC	19516
DB	19201	CCAGCCTGGGTGACAGAGATTAACCTTCAATCTCAATTAACCTCAATTAACCTCAATTAAC	19260
QY	19517	GCCGGTGCAGTGGCTCACACCTGTAAATCCAGCACTTTGGGAGGCTGAGCGGGCGATC	19576
DB	19261	GCCGGTGCAGTGGCTCACACCTGTAAATCCAGCACTTTGGGAGGCTGAGCGGGCGATC	19320
QY	19577	ACAAGGTCAAGGAGTTTGAGACCGAGCCTGACTTAACATGGTGAATCTTCAATCTTCAATA	19636
DB	19321	ACAAGGTCAAGGAGTTTGAGACCGAGCCTGACTTAACATGGTGAATCTTCAATCTTCAATA	19380

QY	19637	ATACAAAAATTAGCCAGGCTGTGTGGCGGTGCTGTAGTCCAGCTACTTTGGGAGGCTG	19696
DB	19381	ATACAAAAATTAGCCAGGCTGTGTGGCGGTGCTGTAGTCCAGCTACTTTGGGAGGCTG	19440
QY	19697	AGCAGAGAGAAATTAATTGAACCCCGGAGGTGGAGTTGCAGTGTAGCTGAGATCGGCCAC	19756
DB	19441	AGCAGAGAGAAATTAATTGAACCCCGGAGGTGGAGTTGCAGTGTAGCTGAGATCGGCCAC	19500
QY	19757	TGCACCTCCAGTCTGGGCAACAGAGTGAGACCTGTCTCAAAAAAAGGAGGAGGAGGAGG	19816
DB	19501	TGCACCTCCAGTCTGGGCAACAGAGTGAGACCTGTCTCAAAAAAAGGAGGAGGAGGAGG	19560
QY	19817	AGAAAAAGGCGAGGCTGAGATCCCTAAGGTTCTGGGAGAGCAGATCTGTCTATCAGTA	19876
DB	19561	AGAAAAAGGCGAGGCTGAGATCCCTAAGGTTCTGGGAGAGCAGATCTGTCTATCAGTA	19620
QY	19877	TTTTAAGTGGGTGGGTATTACCCGACTTTGTTAAAGGGGTGGGCTGATGTTCTGAATG	19936
DB	19621	TTTTAAGTGGGTGGGTATTACCCGACTTTGTTAAAGGGGTGGGCTGATGTTCTGAATG	19680
QY	19937	TACGTATAGATGATATAAGCACATGCTGTAGTCCAGCTACTTTGGGAGGATGTGCTGA	19996
DB	19681	TACGTATAGATGATATAAGCACATGCTGTAGTCCAGCTACTTTGGGAGGATGTGCTGA	19740
QY	19997	CTCGTCCCAAAATAATCAATGTCAAGTATCAAAAACTTGGCTGTAATCAGAAATCATCT	20056
DB	19741	CTCGTCCCAAAATAATCAATGTCAAGTATCAAAAACTTGGCTGTAATCAGAAATCATCT	19800
QY	20057	GTAGAAAAATTTGAAACTGAGGCCAGACATGTTGAGTCAAGAAATTCAGACCCAGCTGAG	20116
DB	19801	GTAGAAAAATTTGAAACTGAGGCCAGACATGTTGAGTCAAGAAATTCAGACCCAGCTGAG	19860
QY	20117	GGGAGCTGAGGCGAGCAGATCACTTGTAGTCAAGAAATTCAGACCCAGCTGAGCAACAT	20176
DB	19861	GGGAGCTGAGGCGAGCAGATCACTTGTAGTCAAGAAATTCAGACCCAGCTGAGCAACAT	19920
QY	20177	GGTGAACCCCGCTCTCTCTAAATAATCAAAAAATAGCTGGACATGGTGTGATGTGCTG	20236
DB	19921	GGTGAACCCCGCTCTCTCTAAATAATCAAAAAATAGCTGGACATGGTGTGATGTGCTG	19980
QY	20237	TCAACCCAGCTACTCAGGAGGCTGAGCGAGGAGATCACTTGAACCCAGGAGGTGAGGT	20296
DB	19981	TCAACCCAGCTACTCAGGAGGCTGAGCGAGGAGATCACTTGAACCCAGGAGGTGAGGT	20040
QY	20297	TGCAGTGAGCAAGATTGACCACTGCACTGCACTGCACTGCACTGCACTGCACTGCACTG	20356
DB	20041	TGCAGTGAGCAAGATTGACCACTGCACTGCACTGCACTGCACTGCACTGCACTGCACTG	20100
QY	20357	TCAAAAAAGAAAAAGATTAAGAAAAATTTGAAAACTACACATATTTCTGACTCTGACAC	20416
DB	20101	TCAAAAAAGAAAAAGATTAAGAAAAATTTGAAAACTACACATATTTCTGACTCTGACAC	20160
QY	20417	AAATATTTAGTGGGTGGAAACAGTGACTTGGCCCTTAGGTAGTCTTTCTATTATTGAGGC	20476
DB	20161	AAATATTTAGTGGGTGGAAACAGTGACTTGGCCCTTAGGTAGTCTTTCTATTATTGAGGC	20220
QY	20477	CAAAATGAATTTGAAGTAGGTATGCTTTGTTTCCAGAAATTTCCAAAAAGTTAGATCGCT	20536
DB	20221	CAAAATGAATTTGAAGTAGGTATGCTTTGTTTCCAGAAATTTCCAAAAAGTTAGATCGCT	20280
QY	20537	GGCAAAAAATTTACAGAGTGGAGGCTGGCGTGTGCTCACTCTATTAATCCAGACACTT	20596
DB	20281	GGCAAAAAATTTACAGAGTGGAGGCTGGCGTGTGCTCACTCTATTAATCCAGACACTT	20340
QY	20597	TGGAGCGGAGCAGCGCCAAATTTGCTTGTAGTCCGGAGTTTGAGACAGCCTGGGCAACA	20656
DB	20341	TGGAGCGGAGCAGCGCCAAATTTGCTTGTAGTCCGGAGTTTGAGACAGCCTGGGCAACA	20400
QY	20657	TAGTGAGGACTTATCTTCACTAAAGTGAATAAATTTAGCCAGGTGTGGTGTGCACACCT	20716
DB	20401	TAGTGAGGACTTATCTTCACTAAAGTGAATAAATTTAGCCAGGTGTGGTGTGCACACCT	20460
QY	20717	GTAGCCCACTTACTTGGGAGGCTGAGGTAGAAGAAATTAACCTGAGCCTGGGAAAGTTGAGC	20776

QY	22937	TGAAAGTCCAGGGTGTCTGTCTGTCTAGAACTGGGTGGGTGAGTAAACCCAACTCTGC	22996
DB	22681	TGAAAGTCCAGGGTGTCTGTCTGTCTAGAACTGGGTGGGTGAGTAAACCCAACTCTGC	22740
QY	22997	AGCTTTCTCTCTGTGTGAACCTGGGTGAGTCAACAAACTTTGTGAGCTTAACCTCTCT	23056
DB	22741	AGCTTTCTCTCTGTGTGAACCTGGGTGAGTCAACAAACTTTGTGAGCTTAACCTCTCT	22800
QY	23057	CAGGGGTTATGAGATTGACACAGAAAGACCTGGCCCATAGCAGATTTTCAGCCCAT	23116
DB	22801	CAGGGGTTATGAGATTGACACAGAAAGACCTGGCCCATAGCAGATTTTCAGCCCAT	22860
QY	23117	GTGAGACCTCTGCGCTGAGTGTCTCTGTGATCTCCCTGACAGTCTCTCTGGTTTC	23176
DB	22861	GTGAGACCTCTGCGCTGAGTGTCTCTGTGATCTCCCTGACAGTCTCTCTGGTTTC	22920
QY	23177	TGTCTCATGCTCCCTCCATCTGCATAGGATGGGCTCTCTGTGTTTCTTCTTTTCTC	23236
DB	22921	TGTCTCATGCTCCCTCCATCTGCATAGGATGGGCTCTCTGTGTTTCTTCTTTTCTC	22980
QY	23237	TGTGTCTCTTCTGATCTCTGTCTGATACATTTTGGGCTTTGTGCAACCCCTGACCCCT	23296
DB	22981	TGTGTCTCTTCTGATCTCTGTCTGATACATTTTGGGCTTTGTGCAACCCCTGACCCCT	23040
QY	23297	CATCTCTGCTCCCTCTGCTGCTCACTCATACACACGCTACATCTCACCCCTCTCTC	23356
DB	23041	CATCTCTGCTCCCTCTGCTGCTCACTCATACACACGCTACATCTCACCCCTCTCTC	23100
QY	23357	CTGCTGGCTTTCTGCTCTCCCTTTCTCTGGGCTCTCTGCCCATATTTGGTCTTTATTC	23416
DB	23101	CTGCTGGCTTTCTGCTCTCCCTTTCTCTGGGCTCTCTGCCCATATTTGGTCTTTATTC	23160
QY	23417	CTCCCTCTGGGTGTGTCTCTGGGTCTCTATCTCTCTCTCTCTCTCTCTCTCTCTCT	23476
DB	23161	CTCCCTCTGGGTGTGTCTCTGGGTCTCTATCTCTCTCTCTCTCTCTCTCTCTCTCT	23220
QY	23477	CTGGGTCT	23536
DB	23221	CTGGGTCT	23280
QY	23537	TACCACTCTGAAATTTCTATTTTCCCTTTTCTCTGGGTCTGCAACTCTCTTCCCTCAT	23596
DB	23281	TACCACTCTGAAATTTCTATTTTCCCTTTTCTCTGGGTCTGCAACTCTCTTCCCTCAT	23340
QY	23597	TCCCT	23656
DB	23341	TCCCT	23400
QY	23657	CTGTCT	23716
DB	23401	CTGTCT	23460
QY	23717	CCCTTTCCCT	23776
DB	23461	CCCTTTCCCT	23520
QY	23777	TGTTCTGTCTCTCTGTGTCTCTGGGTCTCTGGGTATGAAATTTCACTCTGATCATTTT	23836
DB	23521	TGTTCTGTCTCTCTGTGTCTCTGGGTCTCTGGGTATGAAATTTCACTCTGATCATTTT	23580
QY	23837	CATGATCT	23896
DB	23581	CATGATCT	23640
QY	23897	GTCT	23956
DB	23641	GTCT	23700
QY	23957	TCTCTGTGTCT	24016
DB	23701	TCTCTGTGTCT	23760

QY	24017	CCT	24076
DB	23761	CCT	23820
QY	24077	CT	24136
DB	23821	CT	23880
QY	24137	TCTCGGATCTCATGCT	24196
DB	23881	TCTCGGATCTCATGCT	23940
QY	24197	CTCTGGGTCTACCTGTCTCGGCACCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT	24256
DB	23941	CTCTGGGTCTACCTGTCTCGGCACCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT	24000
QY	24257	CACAGTTCTCTGACCAAGACCCAGGGAAGCCCTGGGCTCAGGGCTCAGGGGAACCTTA	24316
DB	24001	CACAGTTCTCTGACCAAGACCCAGGGAAGCCCTGGGCTCAGGGCTCAGGGGAACCTTA	24060
QY	24317	CCATCCGTGCACATGGCTTTTCCGCTGGATTGACTGGGAGCGCTGGAAACGATTGGAGA	24376
DB	24061	CCATCCGTGCACATGGCTTTTCCGCTGGATTGACTGGGAGCGCTGGAAACGATTGGAGA	24120
QY	24377	TCCGCTCTCTCTTTCAGAGCCCGCCCGGCTACCTCCAGGGCAACAAACCTCTGGTCC	24436
DB	24121	TCCGCTCTCTCTTTCAGAGCCCGCCCGGCTACCTCCAGGGCAACAAACCTCTGGTCC	24180
QY	24437	CTGAAGGGGTGGGTTCCTCTGGGCTCAATATACCTGTATGTGGGGGTGGGTTCCTCTC	24496
DB	24181	CTGAAGGGGTGGGTTCCTCTGGGCTCAATATACCTGTATGTGGGGGTGGGTTCCTCTC	24240
QY	24497	TGCAGAGCCCGCCCGCCCAACAAAGGAGGTGCAGACACCATGAAGCATGAATAGAGAT	24556
DB	24241	TGCAGAGCCCGCCCGCCCAACAAAGGAGGTGCAGACACCATGAAGCATGAATAGAGAT	24300
QY	24557	TCTGCAGAGACAGAGATGAGACTGGGGTACACAGAGGACACCCGAGGAGCCCTCGA	24616
DB	24301	TCTGCAGAGACAGAGATGAGACTGGGGTACACAGAGGACACCCGAGGAGCCCTCGA	24360
QY	24617	GCTGCTTAACCTTCCCTCCCGCCAGCTCTCCACAGTGTGGCGGCGAGCGGCGAGAACTTTG	24676
DB	24361	GCTGCTTAACCTTCCCTCCCGCCAGCTCTCCACAGTGTGGCGGCGAGCGGCGAGAACTTTG	24420
QY	24677	ACAACTTCTTCCAGCGGCGGCGGCGAGCGCTGACCCCTCCAGAGCGGCTAGTCTTGCCA	24736
DB	24421	ACAACTTCTTCCAGCGGCGGCGGCGAGCGCTGACCCCTCCAGAGCGGCTAGTCTTGCCA	24480
QY	24737	GCATGACACAGGCGGATTTCCAGGGCTTCACTAGTGAAACCCCGACCTTCTGTCACCCGG	24796
DB	24481	GCATGACACAGGCGGATTTCCAGGGCTTCACTAGTGAAACCCCGACCTTCTGTCACCCGG	24540
QY	24797	ATGCCCGAGCCCGCCAGAGCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT	24856
DB	24541	ATGCCCGAGCCCGCCAGAGCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT	24600
QY	24857	TAGGTGTCTCCAAAGCTCTCCCGCTCCGCGGTGCGGGGCGAGCCCACTTCAACCCCAATTC	24916
DB	24601	TAGGTGTCTCCAAAGCTCTCCCGCTCCGCGGTGCGGGGCGAGCCCACTTCAACCCCAATTC	24660
QY	24917	ACCAACCCCTGTGCGATTTCTAGATCTCTGCAACCCAGGATTCAGGCTCTGCCCCCGGGGT	24976
DB	24661	ACCAACCCCTGTGCGATTTCTAGATCTCTGCAACCCAGGATTCAGGCTCTGCCCCCGGGGT	24720
QY	24977	TCTAGACCCCTTCCAGAGCGTCTCTGGCTTCTGAACTCATACAGCTCTTACAGCCGT	25036
DB	24721	TCTAGACCCCTTCCAGAGCGTCTCTGGCTTCTGAACTCATACAGCTCTTACAGCCGT	24780
QY	25037	CCCGGTTCAAGACTTTGAGCG 25057	
DB	24781	CCCGGTTCAAGACTTTGAGCG 24801	

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2897 TAGAGCTGGGACCGGGCTCTGGGACCTCAGAGGGTGGAGGCTGGGGCCCAACAG 2956
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3437 ACTTCTGCCCAAGTTGCTGCTTCTTGGGCTGCGTCTGAAGATATTTCCGTTTTGCTCTT 3496
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Db 7209 AAAAAAAAAAAAAAAAAAGTTAACTGCTTGACCAAGCATGGTGGCTCATGCTCTGTA 7268
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Db	9369	CAGCAGCCCA	CCCTTCTGCGACCACTGTGTGCTCCCTCTCTCTACGGGCTTGTGCAACAAGG	9428
Qy	7681	CATGAATGCT	CTGTGTGAGTGACTGTGGCTTGCACAGGCGCCTTCCAAAGCGCCCGGTCT	7740
Db	9429	CATGAATGCT	CTGTGTGAGTGACTGTGGCTTGCACAGGCGCCTTCCAAAGCGCCCGGTCT	9488
Qy	7741	GGGTTCGGGAAA	TGCCCGGGATGGGGTGGGGGTGGAGTCTTGGCTTGGGGGCGGGGCC	7800
Db	9489	GGGTTCGGGAAA	TGCCCGGGATGGGGTGGGGGTGGAGTCTTGGCTTGGGGGCGGGGCC	9548
Qy	7801	TGAGGTGCTAC	CCGCGAGCTTCCCTCCAGGCTGCGAGATGAACGTGACACCGGCGCTGTG	7860
Db	9549	TGAGGTGCTAC	CCGCGAGCTTCCCTCCAGGCTGCGAGATGAACGTGACACCGGCGCTGTG	9608
Qy	7861	TGCGTAGCTGC	CCCTCCCTGTGGGTGTGGACACACCGAGCGCGCGGGCGCTGTGACG	7920
Db	9609	TGCGTAGCTGC	CCCTCCCTGTGGGTGTGGACACACCGAGCGCGCGGGCGCTGTGACG	9668
Qy	7921	TGGAGATCCGGG	CTCCACAGCAGATCCACGTAACTGGTGAAGCCCCCGCCCCCTC	7980
Db	9669	TGGAGATCCGGG	CTCCACAGCAGATCCACGTAACTGGTGAAGCCCCCGCCCCCTC	9728
Qy	7981	GCCTGGCCCCG	CCCCCTCCCAAGTGTGAGGCGGGCTGACCCNAGGCACATTGTGCTGC	8040
Db	9729	GCCTGGCCCCG	CCCCCTCCCAAGTGTGAGGCGGGCTGACCCNAGGCACATTGTGCTGC	9788
Qy	8041	CCAGCCCTACC	CAAAAGATGGGSCACGCTCTTCTATGTGTACGCCACACACTCTGAC	8100
Db	9789	CCAGCCCTACC	CAAAAGATGGGSCACGCTCTTCTATGTGTACGCCACACACTCTGAC	9848
Qy	8101	CCCAACCCAA	AGGCGCAGCACACCCAGCCATACCCCTTTTGGCTCGAAGCCCCCGCTCCA	8160
Db	9849	CCCAACCCAA	AGGCGCAGCACACCCAGCCATACCCCTTTTGGCTCGAAGCCCCCGCTCCA	9908
Qy	8161	ACCTGGCTTCT	TGCAACTTCTGCACTGTGTAATGACTTTGACTTCTTTTTTTTTTTTGG	8220
Db	9909	ACCTGGCTTCT	TGCAACTTCTGCACTGTGTAATGACTTTGACTTCTTTTTTTTTTTTGG	9968
Qy	8221	GACGGATTTGC	GTCTTGTGCTCAAGCTGGAGTGCATGGCGCGCATCTCGCTCACTGC	8280
Db	9969	GACGGATTTGC	GTCTTGTGCTCAAGCTGGAGTGCATGGCGCGCATCTCGCTCACTGC	10028
Qy	8281	AACTTCGCTCC	CGCGGTTCAAGTGAATCTCTGCTCAGCCTCCGAGTAGCTGGGATT	8340
Db	10029	AACTTCGCTCC	CGCGGTTCAAGTGAATCTCTGCTCAGCCTCCGAGTAGCTGGGATT	10088
Qy	8341	ACAGGCGGTGT	CAACAAGCCCGGTAAATTTTGTATTTTTTAGTACAAACGGGGTTTCA	8400
Db	10089	ACAGGCGGTGT	CAACAAGCCCGGTAAATTTTGTATTTTTTAGTACAAACGGGGTTTCA	10148
Qy	8401	CCATGTTAGCC	AGGCTGGTCTCGAACTCTGTACCCAGGTGATCCCTCGACTCGGCTC	8460
Db	10149	CCATGTTAGCC	AGGCTGGTCTCGAACTCTGTACCCAGGTGATCCCTCGACTCGGCTC	10208
Qy	8461	CCTAAAGTGCT	GGAATTAACAGGCGGTGACGACCGCGCTGGCCAAATGGCTTCTTTTTTG	8520
Db	10209	CCTAAAGTGCT	GGAATTAACAGGCGGTGACGACCGCGCTGGCCAAATGGCTTCTTTTTTG	10268
Qy	8521	TTTTTATTTAT	GTTTATTTTTTTTGTAGATGGAGTCTGTGTCAACCGAGCTGGAGTG	8580
Db	10269	TTTTTATTTAT	GTTTATTTTTTTTGTAGATGGAGTCTGTGTCAACCGAGCTGGAGTG	10328
Qy	8581	CAGTGTGCAAT	CTTGGCTCACTGCAATCTCTGCTCCGGGTTCAAGGATTTCTCTTGC	8640
Db	10329	CAGTGTGCAAT	CTTGGCTCACTGCAATCTCTGCTCCGGGTTCAAGGATTTCTCTTGC	10388
Qy	8641	CTCAGCTCCCG	AGTAGCTGGAATTAACGCGGCTGCCACACATCCGGCTAAATTTTTT	8700
Db	10389	CTCAGCTCCCG	AGTAGCTGGAATTAACGCGGCTGCCACACATCCGGCTAAATTTTTT	10448
Qy	8701	TTTTTTTTTTTT	TTTTTTTGAGACAAGATCTCTGCTGTGTGCCAGGCTGGAGTGTGACATG	8760

DB	10449	TTTTTTTTTTTTTTTGAGACAAGATCTCGTCTGTGTGCCAGGCTCGAGTGCAGTAGCATG 10508
QY	8761	ATCTCAGCTCAGCTGCAACCTCTCGCCCTCTCAGGTTCAAGCGAATTCCTCTGTTTCAGCCTCC 8820
DB	10509	ATCTCAGCTCAGCTGCAACCTCTCGCCCTCTCAGGTTCAAGCGAATTCCTCTGTTTCAGCCTCC 10568
QY	8821	TGAGTAGCTGGGACTACAGGTGTGACACTGCACCCAGCTCAATTTTTGTATTTTAGTA 8880
DB	10569	TGAGTAGCTGGGACTACAGGTGTGACACTGCACCCAGCTCAATTTTTGTATTTTAGTA 10628
QY	8881	GAGACAGGTTTTCAACATGCTAGCCAGGCTGCTCTGGAACTCCTGACCTCAGGTGATCCG 8940
DB	10629	GAGACAGGTTTTCAACATGCTAGCCAGGCTGCTCTGGAACTCCTGACCTCAGGTGATCCG 10688
QY	8941	CCGCGCTCCGCTCCCAAAAGTCTCGGATTAACAGGGTGAGGACCGTGCCCGGCAATGGC 9000
DB	10689	CCGCGCTCCGCTCCCAAAAGTCTCGGATTAACAGGGTGAGGACCGTGCCCGGCAATGGC 10748
QY	9001	TTTTCTGGGTATTAAGGATCTTGAGAGGGAGAGTACTGGTGTCTGAGGAGGCTGTGGTTC 9060
DB	10749	TTTTCTGGGTATTAAGGATCTTGAGAGGGAGAGTACTGGTGTCTGAGGAGGCTGTGGTTC 10808
QY	9061	AGTACTGGTGACATGCCAGGCTCAAACTCTGGTTCCTAATGGAGAGAGGGCTCTGGA 9120
DB	10809	AGTACTGGTGACATGCCAGGCTCAAACTCTGGTTCCTAATGGAGAGAGGGCTCTGGA 10868
QY	9121	TCTGATTTACGGGTCACTGGTTGCGGAAAGGCTCTATGCCCTGTCTCTGSGTTCTGGA 9180
DB	10869	TCTGATTTACGGGTCACTGGTTGCGGAAAGGCTCTATGCCCTGTCTCTGSGTTCTGGA 10928
QY	9181	GAGGTAAAGATCATGAGAAAAGAGACTGAGAGCTTGGAAATCTTTTTTTTTTTTTTTTTTG 9240
DB	10929	GAGGTAAAGATCATGAGAAAAGAGACTGAGAGCTTGGAAATCTTTTTTTTTTTTTTTTTTG 10988
QY	9241	AGACGAGTCTCGCTGTGAGCCAGGCTGGAGTGACGTGGCGTAAATCTCGGCTCACTGC 9300
DB	10989	AGACGAGTCTCGCTGTGAGCCAGGCTGGAGTGACGTGGCGTAAATCTCGGCTCACTGC 11048
QY	9301	AAGCTCCGACTCTCGGTTACGTCATTTCTCCGCTCAGCTCTGAGTAGCTGGGACC 9360
DB	11049	AAGCTCCGACTCTCGGTTACGTCATTTCTCCGCTCAGCTCTGAGTAGCTGGGACC 11108
QY	9361	ACAGACCTGCCACACGCCACGCTAAATTTTTTTTTTTTTTTTTTTTGTATTTTTAGTGGAGAC 9420
DB	11109	ACAGACCTGCCACACGCCACGCTAAATTTTTTTTTTTTTTTTTTTTGTATTTTTAGTGGAGAC 11168
QY	9421	GGGGTTTCACTTACAGGATGCTCTCGATCTCTGACCTTGTGATCCGCCCGCTTGG 9480
DB	11169	GGGGTTTCACTTACAGGATGCTCTCGATCTCTGACCTTGTGATCCGCCCGCTTGG 11228
QY	9481	CTTCCCAAGTCTCGGATTTACAGGCATGAGCCGCTGCTGGCCAAAGCTTGGAACTCT 9540
DB	11229	CTTCCCAAGTCTCGGATTTACAGGCATGAGCCGCTGCTGGCCAAAGCTTGGAACTCT 11288
QY	9541	TGATGTGCTGAGTGGAGAGGCTGGGAGCCCTTCTCTGATCTCTAAACCCGTCACACTCT 9600
DB	11289	TGATGTGCTGAGTGGAGAGGCTGGGAGCCCTTCTCTGATCTCTAAACCCGTCACACTCT 11348
QY	9601	TCCTCACTCCCGTTAGTTTGGCGAGGCCGTAACTAATCTCTATGGAACCCCAATGGTC 9660
DB	11349	TCCTCACTCCCGTTAGTTTGGCGAGGCCGTAACTAATCTCTATGGAACCCCAATGGTC 11408
QY	9661	TCTCTGATCCCTATGTGAAACTGAAGCTCATCCAGACCTCTCGGAACCTGACGAACAGA 9720
DB	11409	TCTCTGATCCCTATGTGAAACTGAAGCTCATCCAGACCTCTCGGAACCTGACGAACAGA 11468
QY	9721	AGACCCGAAACGGTGAAAGCCACGCTAAACCTGTGTGGAATGAGACCTTGTGTGTGAG 9780
DB	11469	AGACCCGAAACGGTGAAAGCCACGCTAAACCTGTGTGGAATGAGACCTTGTGTGTGAG 11528
QY	9781	TCTGGGTTGACGGGAGGCAATGACAGCTGACAGAGATGATCTCAGGGTCTCTAGTGGCC 9840

Db 11529 TCTGGGTCAGGGAGGCAATGACAGCTCAGACAGAGATGATCTGAGGTCCTAGTGGCC 11588
Qy 9841 CCCAGAGCAGCTGATGGAGGGTGTAGATAGAGGAAACCCAGAAAGGGCAGAGAA 9900
Db 11589 CCCAGAGCAGCTGATGGAGGGTGTAGATAGAGGAAACCCAGAAAGGGCAGAGAA 11648
Qy 9901 GATGGTGGGAAAGGGAATAGATGATTGAGGAGTGGGATGAGATACAGAAACGGAGA 9960
Db 11649 GATGGTGGGAAAGGGAATAGATGATTGAGGAGTGGGATGAGATACAGAAACGGAGA 11708
Qy 9961 GACAGCCAGACCACTGTATTAATAGTCTCCATTTGAAGCCCCCAACTTTAGATTTAGACAG 10020
Db 11709 GACAGCCAGACCACTGTATTAATAGTCTCCATTTGAAGCCCCCAACTTTAGATTTAGACAG 11768
Qy 10021 AGATGAGAGAGAGAGAGAGTCTCAGAAAGAGGCGAGAAACCCAAAGAGAGACACAGATG 10080
Db 11769 AGATGAGAGAGAGAGAGAGTCTCAGAAAGAGGCGAGAAACCCAAAGAGAGACACAGATG 11828
Qy 10081 GAGAGGGAGGGAGAGATGGGGATGGCAGGAGGACAGAGATCAGTTGACAGGAGAGACA 10140
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Qy 10141 GAGTGTAGAGACCCAGAGAGGAGAGAGGCTACAGAGACTCAGAGAGAGAGATCTCGAG 10200
Db 11889 GAGTGTAGAGACCCAGAGAGGAGAGAGGCTACAGAGACTCAGAGAGAGAGATCTCGAG 11948
Qy 10201 AGACAAGAGAGACAGAGATGGGAAGGGCGGAGAAATGCAAGGAGGAAGGAGAGAGCTC 10260
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Qy 10261 TCTAGGTTTACTTCAGGCCCCAAAGCCCTAGCTGGAGAGAGCCGGCTGGGAAGGTCA 10320
Db 12009 TCTAGGTTTACTTCAGGCCCCAAAGCCCTAGCTGGAGAGAGCCGGCTGGGAAGGTCA 12068
Qy 10321 GAGTCTGGACACCGACAAAGAGAGAGAGAGCCAGCTGGCTGGGTTTGCCCCCACTC 10380
Db 12069 GAGTCTGGACACCGACAAAGAGAGAGAGAGCCAGCTGGCTGGGTTTGCCCCCACTC 12128
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Db 12129 CAGACAAGAGATGGGAAACCGAGGGAGGACCATGAGCTGGGCTTGACACCCCATCCACC 12188
Qy 10441 CACTCTCTCAGCAACCTCAGCCAGGGGATGTGGAGCCCGGCTCAGCGTGGAGGTGT 10500
Db 12189 CACTCTCTCAGCAACCTCAGCCAGGGGATGTGGAGCCCGGCTCAGCGTGGAGGTGT 12248
Qy 10501 GGGACTGGGACCGGACCTCCCGCAACGACCTTCATGGGGGCGCATGTCTTTGGGGTCTCGG 10560
Db 12249 GGGACTGGGACCGGACCTCCCGCAACGACCTTCATGGGGGCGCATGTCTTTGGGGTCTCGG 12308
Qy 10561 AGCTGCTCAAGGGCCCGTGGATGGCTGGTGGAGGAGCGGGCTGGGGATGGAG 10620
Db 12309 AGCTGCTCAAGGGCCCGTGGATGGCTGGTGGAGGAGCGGGCTGGGGATGGAG 12368
Qy 10621 CGCAATATTACCATCTCATCTGTGTGTGTCTCTCTCTCCAGGGCCACTGTCTCTCCCT 10680
Db 12369 CGCAATATTACCATCTCATCTGTGTGTGTCTCTCTCTCCAGGGCCACTGTCTCTCCCT 12428
Qy 10681 CTGCGCTCCAGCATGGCAGACACACACACACACACACACACACACACACACACACAC 10740
Db 12429 CTGCGCTCCAGCATGGCAGACACACACACACACACACACACACACACACACACACAC 12488
Qy 10741 ACAGCCCTCTCTCTCATCT 10800
Db 12489 ACAGCCCTCTCTCTCATCT 12548
Qy 10801 TTTATCTCACT 10860
Db 12549 TTTATCTCACT 12608
Qy 10861 TTCCAAATGTCTTTGGCTCTCCCATGGGTGCCCATCCCGCTCGCGGCTCTGGTCTCGG 10920
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Qy 10921 TCTGTATGTCAAGTTACTGAACCCAGAGAGGGCGAGTATTACAATGTCCCGT 10980
Db 12669 TCTGTATGTCAAGTTACTGAACCCAGAGAGGGCGAGTATTACAATGTCCCGT 12728
Qy 10981 GGCCTATGTCAAACTGCAGGCTCTCCAGAAAGTTTGAAGTACCCAGACCCCTGGCTTC 11040
Db 12729 GGCCTATGTCAAACTGCAGGCTCTCCAGAAAGTTTGAAGTACCCAGACCCCTGGCTTC 12788
Qy 11041 TCAGGAGAGCCAGCCAGCTCCCAAGGTTCAAGAGCTGGGCTTTCTCTTCCACCCCTGAG 11100
Db 12789 TCAGGAGAGCCAGCCAGCTCCCAAGGTTCAAGAGCTGGGCTTTCTCTTCCACCCCTGAG 12848
Qy 11101 TGCCTGCTGCTCTGGGACTACAGTTCCAGAGAGCCCTAGGACTCCCTCTCTCTCTCT 11160
Db 12849 TGCCTGCTGCTCTGGGACTACAGTTCCAGAGAGCCCTAGGACTCCCTCTCTCTCTCT 12908
Qy 11161 CTAGGGGACTCCAGGCCCCAGGCTCTGATGGGAATTTATAGTTCTCTATCTATCTGCT 11220
Db 12909 CTAGGGGACTCCAGGCCCCAGGCTCTGATGGGAATTTATAGTTCTCTATCTATCTGCT 12968
Qy 11221 TCAGGCTACTAGGGGCAACAGCCCTGTTCTAGGGCGATCCCTGCTATCTCTTGGGACC 11280
Db 12969 TCAGGCTACTAGGGGCAACAGCCCTGTTCTAGGGCGATCCCTGCTATCTCTTGGGACC 13028
Qy 11281 CTGACT 11340
Db 13029 CTGACT 13088
Qy 11341 GTAGAACACAGGGCGTTGAATGGAGGCAAGTTTGGCTACTCTCTGATTTCTTATCTCT 11400
Db 13089 GTAGAACACAGGGCGTTGAATGGAGGCAAGTTTGGCTACTCTCTGATTTCTTATCTCT 13148
Qy 11401 CTCTGACT 11460
Db 13149 CTCTGACT 13208
Qy 11461 TCTTGTCT 11520
Db 13209 TCTTGTCT 13268
Qy 11521 AAGTAGGGGACACAGTCAAGATCTTAAATACAGGAAGATGTGCTAAATTAGAGGTAG 11580
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Qy 11581 CCCAGGGCACTGAAGAGGCTTAACGGAGCCTAATCCAGCCTGGGGAGGGTGGTCAAG 11640
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Db 13389 GAGGACTTCCCTGAGGAGTACGCTGAATTTGATTTCTTGAAGTTTCTTGAAGTTTCTT 13448
Qy 11701 ATTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTT 11760
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Qy 11881 TAGTAGAGATGGGATTTGCCCATTTGGCCAGGCTGATCTCAAACTCCCAAACTCAGGTG 11940
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Qy 11941 ATCCGCTGCTTGGCTTCCCAAGATGTGGGATTTACAGCATGAGCCACTGCGGCCGAC 12000
Db 13689 ATCCGCTGCTTGGCTTCCCAAGATGTGGGATTTACAGCATGAGCCACTGCGGCCGAC 13748

QY	16381	ATAGGTGATGCTGGCCGAGCGCAGGGGCTCTGATGAGCTCTAGCCCATCAAGATCTTGAA	16440
DB	18126	ATAGGTGATGCTGGCCGAGCGCAGGGGCTCTGATGAGCTCTAGCCCATCAAGATCTTGAA	18185
QY	16441	AAAGGACGTGATCGTCCAGGACGACGATGTGGAGTGCACGCTGGTGAGAAAACGTGTGCT	16500
DB	18186	AAAGGACGTGATCGTCCAGGACGACGATGTGGAGTGCACGCTGGTGAGAAAACGTGTGCT	18245
QY	16501	GGCGCTGGGGGGCGGGGCTCTGGCGCGCGGCCCTCTCTCCTCACCAGCTCCACTCCAC	16560
DB	18246	GGCGCTGGGGGGCGGGGCTCTGGCGCGCGGCCCTCTCTCCTCACCAGCTCCACTCCAC	18305
QY	16561	CTTCCAGACCCCGGTAAAGATGGAGGGGGGGAGGCTGTCTCTCGGGGCCCTGCTTATCC	16620
DB	18306	CTTCCAGACCCCGGTAAAGATGGAGGGGGGGAGGCTGTCTCTCGGGGCCCTGCTTATCC	18365
QY	16621	AGTTCTGGACATCTGCGTTGGGATTTCTGAGTTTAGGGCGAGGCAAGAGAACTTTGTGCTC	16680
DB	18366	AGTTCTGGACATCTGCGTTGGGATTTCTGAGTTTAGGGCGAGGCAAGAGAACTTTGTGCTC	18425
QY	16681	TCTGAGTGGGCGAGGCGCAGCGGATTTCTCTCCTCAGGGGCGTGGCC-GGGGGGGGGTCC	16739
DB	18426	TCTGAGTGGGCGAGGCGCAGCGGATTTCTCTCCTCAGGGGCGTGGCCGGGGGGGGGGTCC	18485
QY	16740	TTGGGGGGCGTGGCCAGGCGAAGGGAATCATCGGGGGCGTGGCCAGGCGAGGGGCTCA	16799
DB	18486	TTGGGGGGCGTGGCCAGGCGAAGGGAATCATCGGGGGCGTGGCCAGGCGAGGGGCTCA	18545
QY	16800	ACGGAGCGAGGCGGGGTGAGGGGCTCTCTCGGGGGCGTGGCCAGGTGGAGGACATCATC	16859
DB	18546	ACGGAGCGAGGCGGGGTGAGGGGCTCTCTCGGGGGCGTGGCCAGGTGGAGGACATCATC	18605
QY	16860	GGGGGGCGTGGCCAGGCGAGGGGCTCTCTCGGGGGCGTGGCCAGGTGGAGGACATCATC	16919
DB	18606	GGGGGGCGTGGCCAGGCGAGGGGCTCTCTCGGGGGCGTGGCCAGGTGGAGGACATCATC	18665
QY	16920	GGGGGGTGGTTTAGAGGGCGGGCTTTTGTGAGCGGATGGGATCATTAATAGGCGTGCCCA	16979
DB	18666	GGGGGGTGGTTTAGAGGGCGGGCTTTTGTGAGCGGATGGGATCATTAATAGGCGTGCCCA	18725
QY	16980	GGCAGATTGGCTCTTGGGGGCGAGCGGCGAGGACGAGATTAATGATGAGCGTATCCAG	17039
DB	18726	GGCAGATTGGCTCTTGGGGGCGAGCGGCGAGGACGAGATTAATGATGAGCGTATCCAG	18785
QY	17040	GCAAGTATGATTTCTCGAGGGCGTGTGCGGGCGGATGAGCTCTCGGGGGCGTGGCCAGG	17099
DB	18786	GCAAGTATGATTTCTCGAGGGCGTGTGCGGGCGGATGAGCTCTCGGGGGCGTGGCCAGG	18845
QY	17100	CGGTGAGTTCTCTCGGTGGCATGCGCTGGCCAGGATGAATGGGTCTCTCGGAGGTGTCTGA	17159
DB	18846	CGGTGAGTTCTCTCGGTGGCATGCGCTGGCCAGGATGAATGGGTCTCTCGGAGGTGTCTGA	18905
QY	17160	AGCGGTTGAGTTCTTGGGGGCGTGGCGAGGTGGATGGGCTCTTGGGGGGAGTGGCCAGA	17219
DB	18906	AGCGGTTGAGTTCTTGGGGGCGTGGCGAGGTGGATGGGCTCTTGGGGGGAGTGGCCAGA	18965
QY	17220	TGCTCTGTTTCTCGGGGAGCTTGGTCTTGAGTGGCTGTAGCCAGTGTCTCTGGAATTTTCA	17279
DB	18966	TGCTCTGTTTCTCGGGGAGCTTGGTCTTGAGTGGCTGTAGCCAGTGTCTCTGGAATTTTCA	19025
QY	17280	GCAAGGGGCGACAGTGGAGGGGTGCTTCTCTAGTGGGCTGCGCCAGAAATTTGGGCTCGG	17339
DB	19026	GCAAGGGGCGACAGTGGAGGGGTGCTTCTCTAGTGGGCTGCGCCAGAAATTTGGGCTCGG	19085
QY	17340	AGTGACGGGTCATCATTTTGTGATTTCTGATGAGGACATCATCAGAAAACAGGACATTTAT	17399
DB	19086	AGTGACGGGTCATCATTTTGTGATTTCTGATGAGGACATCATCAGAAAACAGGACATTTAT	19145
QY	17400	TTCTTTAGGATTTCGACTTAGGGGCGAGAGTGCAGAACTTGCAGAAATTTTAAAGGGGCT	17459
DB	19146	TTCTTTAGGATTTCGACTTAGGGGCGAGAGTGCAGAACTTGCAGAAATTTTAAAGGGGCT	19205
QY	17460	GACTTTTACTTCCAGGGGCTCCGAATGAGAGTGGCCAGCCACTGGATTAAATATATGTA	17519

DB	19206	GACTTTTACTTCCAGGGCTCCGAATGAGAGTGGCCAGCCACTGGATTAAATATATGTA	19265
QY	17520	TGAGCAACTTTGATTTCTTTTTTTTTTTTTTTTGTGAAAGGAGTTAGCTCTTGTCCCCAGGCT	17579
DB	19266	TGAGCAACTTTGATTTCTTTTTTTTTTTTTTTTGTGAAAGGAGTTAGCTCTTGTCCCCAGGCT	19325
QY	17580	GGAGTGCATATGCGCGATCTCGGCTCAGTCAACCTCCGCCCTCCCGGGTTTAAAGCAATTC	17639
DB	19326	GGAGTGCATATGCGCGATCTCGGCTCAGTCAACCTCCGCCCTCCCGGGTTTAAAGCAATTC	19385
QY	17640	TCCCGTCTCAGCCTCTCTGATGAGTGGGATTAAGGCTCCCGCCACACACTCAGCTGAT	17699
DB	19386	TCCCGTCTCAGCCTCTCTGATGAGTGGGATTAAGGCTCCCGCCACACACTCAGCTGAT	19445
QY	17700	TTTTGTATTTTGTAGAGACCGGGTTTCCCAAGTGGCAGGCTGGTCTGGAACTCCT	17759
DB	19446	TTTTGTATTTTGTAGAGACCGGGTTTCCCAAGTGGCAGGCTGGTCTGGAACTCCT	19505
QY	17760	GACCTCAGGTGATCCACCCGCTTCGGCTCCCAAAAGTGTGGGATTAAGGGGTGAGCCA	17819
DB	19506	GACCTCAGGTGATCCACCCGCTTCGGCTCCCAAAAGTGTGGGATTAAGGGGTGAGCCA	19565
QY	17820	CCACGCCAGCTGCAACTTTTGTATTCTTAGTAGGAAGCCAGAAATTGCATCTGTGTGAGT	17879
DB	19566	CCACGCCAGCTGCAACTTTTGTATTCTTAGTAGGAAGCCAGAAATTGCATCTGTGTGAGT	19625
QY	17880	GGCTGTGAAAGAGATTTTGGTGTTCCTGGGATTTTCAGGCGAATGTTGGGCTTCAGTCTTC	17939
DB	19626	GGCTGTGAAAGAGATTTTGGTGTTCCTGGGATTTTCAGGCGAATGTTGGGCTTCAGTCTTC	19685
QY	17940	AAATCTGAGAAGCGGGGCGCAACACGTTGCTGATAGTTGGCGGTGGTCTGGGGGGTG	17999
DB	19686	AAATCTGAGAAGCGGGGCGCAACACGTTGCTGATAGTTGGCGGTGGTCTGGGGGGTG	19745
QY	18000	GAGATTCTGAGTAGAGAGATTTAGCACTTAGGGGCTCTCCAGGGATGTGGCTAGTGCT	18059
DB	19746	GAGATTCTGAGTAGAGAGATTTAGCACTTAGGGGCTCTCCAGGGATGTGGCTAGTGCT	19805
QY	18060	CTGAATTTCTGGTGGGTGATCTCGAACCTTCCACGCTCTGCTGAGTGTAGGAGAAAG	18119
DB	19806	CTGAATTTCTGGTGGGTGATCTCGAACCTTCCACGCTCTGCTGAGTGTAGGAGAAAG	19865
QY	18120	AAATTTCTCTACTCTGGGTAGATGATCCGCTCTTAAGCCCATGCACTTCTCCGAGGA	18179
DB	19866	AAATTTCTCTACTCTGGGTAGATGATCCGCTCTTAAGCCCATGCACTTCTCCGAGGA	19925
QY	18180	CGCGCTGATTTCTGATGAGTAGTCACTGAGGGGAGACTTTGATGTATCAATTCACAA	18239
DB	19926	CGCGCTGATTTCTGATGAGTAGTCACTGAGGGGAGACTTTGATGTATCAATTCACAA	19985
QY	18240	CTTGGGCAAGTTTAAAGGAGCCCATGACAGCTGAGTCTCGGCCAACAGAGAAATGTCGGG	18299
DB	19986	CTTGGGCAAGTTTAAAGGAGCCCATGACAGCTGAGTCTCGGCCAACAGAGAAATGTCGGG	20045
QY	18300	GTGGTGAAGGGGCGAGATCCAGGCACTGACCTTCTGACGCTCCCGCCACCCCGCTCCT	18359
DB	20046	GTGGTGAAGGGGCGAGATCCAGGCACTGACCTTCTGACGCTCCCGCCACCCCGCTCCT	20105
QY	18360	CCAGGTTCTACGCGGCGAGAAATCGGTATCGGGCTCTTCTTCTTCAATCAGGGGATCA	18419
DB	20106	CCAGGTTCTACGCGGCGAGAAATCGGTATCGGGCTCTTCTTCTTCAATCAGGGGATCA	20165
QY	18420	TCTACAGGTGAGACGCCCGAGGAATTTCCGTGGAGGAAATACGCCCTCTGGAAGGGAAGG	18479
DB	20166	TCTACAGGTGAGACGCCCGAGGAATTTCCGTGGAGGAAATACGCCCTCTGGAAGGGAAGG	20225
QY	18480	GATTTGAATATGTGGCTCTAGACTGCTGAACTCAACACTTTCTTGCAATTTCTGCCCCACA	18539
DB	20226	GATTTGAATATGTGGCTCTAGACTGCTGAACTCAACACTTTCTTGCAATTTCTGCCCCACA	20285
QY	18540	CCCCTGCAATCGTCCAGGGACCTGAAAGCTGGAACAATGTGATGCTGAGGGGACACA	18599

Db 20286 CCCCTGCATCGTCAGGAGCCTGAAGCTGGACAATGTGATGCTCGATGCTGAGGACACA 20345
 Qy 18600 TCAAGATCACTGACTTTGGCATGTGTAAAGGAACGCTCTTCCCGGGACGACAAACCCGCA 18659
 Db 20346 TCAAGATCACTGACTTTGGCATGTGTAAAGGAACGCTCTTCCCGGGACGACAAACCCGCA 20405
 Qy 18660 CCTTCTCGGGACCCCGGACTACATAGCCCCGGAGGTAAACCCCAACCCCTGCTGCTCTGGT 18719
 Db 20406 CCTTCTCGGGACCCCGGACTACATAGCCCCGGAGGTAAACCCCAACCCCTGCTGCTCTGGT 20465
 Qy 18720 CACGCTTTGAGATCCCTTTAGAGGGTGTAGCTGATGGTCCAGTATTACACCGGGTGAGGC 18779
 Db 20466 CACGCTTTGAGATCCCTTTAGAGGGTGTAGCTGATGGTCCAGTATTACACCGGGTGAGGC 20525
 Qy 18780 CTGACCCCTCAGACCTTGTTCATGAGTTGTGGCTTCTTACAGACGAGTGGTTCCTCCAGC 18839
 Db 20526 CTGACCCCTCAGACCTTGTTCATGAGTTGTGGCTTCTTACAGACGAGTGGTTCCTCCAGC 20585
 Qy 18840 CTCAGACACAGTGTGAGCTTGGCACTGAGCCCTGCCAGGTGGGCCAGCTGGGTCTCTAAAT 18899
 Db 20586 CTCAGACACAGTGTGAGCTTGGCACTGAGCCCTGCCAGGTGGGCCAGCTGGGTCTCTAAAT 20645
 Qy 18900 AGGTAAGGTGGGACGACCTGTGGGTGAATGTTCCAGGAGAGTGGGACAGCTCGTAGGA 18959
 Db 20646 AGGTAAGGTGGGACGACCTGTGGGTGAATGTTCCAGGAGAGTGGGACAGCTCGTAGGA 20705
 Qy 18960 ATTCCAAGTAGGACTGACCCCTGAGTCCTTCGAGAAAGGGGACAGCAATTTCTAGTGATC 19019
 Db 20706 ATTCCAAGTAGGACTGACCCCTGAGTCCTTCGAGAAAGGGGACAGCAATTTCTAGTGATC 20765
 Qy 19020 TCTGAGTGGGTGGCTGCTCCCTGAGTATTCAGTTGATGGAAGCTTATTTCTCTGT 19139
 Db 20826 ACTTTAACTGGGACGGCTCTCCCTGGAGTATTCAGTTGATGGAAGCTTATTTCTCTGT 20885
 Qy 19140 GTTGATAGTGTTCCTGATAGTATGATGATGATGATGATGATGATGATGATGATGATGATG 19199
 Db 20886 GTTGATAGTGTTCCTGATAGTATGATGATGATGATGATGATGATGATGATGATGATG 20945
 Qy 19200 CAGATCAGCTGGGCGGGTGGCTCACACCTGTAATCCAGCACTTTGGGAGGCTGAGGC 19259
 Db 20946 CAGATCAGCTGGGCGGGTGGCTCACACCTGTAATCCAGCACTTTGGGAGGCTGAGGC 21005
 Qy 19260 AGTGGATCACTTGAAGTCAAGAGTTTGAACAGCCTGGCCAAACATGGTGAACCTCAT 19319
 Db 21006 AGTGGATCACTTGAAGTCAAGAGTTTGAACAGCCTGGCCAAACATGGTGAACCTCAT 21065
 Qy 19320 CTCTAAACAAATTTACAAATTTAGCCGGCTGGTGGCATGGCTGTATATCCAGCTAT 19379
 Db 21066 CTCTAAACAAATTTACAAATTTAGCCGGCTGGTGGCATGGCTGTATATCCAGCTAT 21125
 Qy 19380 TCGGAGGCTCAGGACGAGAGTATCGCTTGAACCGGGAGGCGGAGTTGCACTGAGCTGA 19439
 Db 21126 TCGGAGGCTCAGGACGAGAGTATCGCTTGAACCGGGAGGCGGAGTTGCACTGAGCTGA 21185
 Qy 19440 GATCACACCACTGACCTCAGCCTGGGTGACAGAGCATAACTTCATATCTCATCAA 19499
 Db 21186 GATCACACCACTGACCTCAGCCTGGGTGACAGAGCATAACTTCATATCTCATCAA 21245
 Qy 19500 AAAAAAAAAAAAAAAAAAGCCGGGTGAGTGCTCACACCTGTATTTCCAGCACTTGGAG 19559
 Db 21246 AAAAAAAAAAAAAAAAAAGCCGGGTGAGTGCTCACACCTGTATTTCCAGCACTTGGAG 21305
 Qy 19560 GCTCAGGCGGCGGATCAACAGGTCAGAGTTTGAACAGCAGCTGACTTAACATGGTGA 19619
 Db 21306 GCTCAGGCGGCGGATCAACAGGTCAGAGTTTGAACAGCAGCTGACTTAACATGGTGA 21365
 Qy 19620 CTCCTCTCTACTAAAAATAAAAAATTTAGCAGGCGGTGGCGGGTGGCTGTAGTCCC 19679
 Db 21366 CTCCTCTCTACTAAAAATAAAAAATTTAGCAGGCGGTGGCGGGTGGCTGTAGTCCC 21425

Qy 19680 AGCTACTTTGGGAGGCTGAGGACGAGAGATTTACTTTGAACCCCGGAGGTGGAGTTGCAGTG 19739
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 Qy 19800 AAAAAAAAAAAAAAGGAGGCGGTGAGATCCCTAAAGTTCTGGGAGGAGCAG 19859
 Db 21546 AAAAAAAAAAAAAAGGAGGCGGTGAGATCCCTAAAGTTCTGGGAGGAGCAG 21605
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 Db 21606 ATCTGCTCCTATCAGTATTTTAAAGTGGTGGGTATTTACCCGACTTTTGTAAAGGGGTGG 21665
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 Db 21726 TGGGAGATGTGCTGACTGCTGCCCAATAATCAATGTCAAGTATGATGATGATGATGATGATG 21785
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 Db 22446 TGTGGTGGTGCACACCTGTAGCCCACTCTTGGGAGGCTGAGGTGAAGAAATTTACCTGA 22505

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Db	22566	AGAGTGAGACCTGTGCAAAAAAAAAAAAAA	22625	
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QY	20940	CTCCAGGGGGTGAGGCCAGAGGGGCTTAGG	20999	
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Db	23526	AAATGATACAGTGTCTAAATATTTAAATTC	23585	
QY	21840	TAAATTCATTAAAGTAGTAAAGTAAAGTA	21899	

Db	23586	TAATTCATTAAAGTAGTAAAGTAAAGTA	23645	
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QY	22260	CCTGCAGTTTCTCTCTCTCTCTCTCTCT	22319	
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QY	22440	TCTCCTGAGGCTGTGTCAGGTGTCATG	22499	
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QY	22500	CTGGGCTGAGGAGGCTGTGGAAGGTTT	22559	
Db	24246	CTGGGCTGAGGAGGCTGTGGAAGGTTT	24305	
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QY	22740	TGCTGTCTCTGTGCTATTAGAAAAAT	22799	
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QY	22800	GTTGGAAAGTTGATATGATGATAGGTTT	22859	
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Qy 13364 TAGAGGCTGCAGTGCAGCCAGATCGCTCACTGCACTCCAGCCTGGATGACAGAGGGAGA 13423
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Qy 13664 TACTAAATTAATTCCTCAGGTGATCCTTTTGCAAAGTTAAGTTTGAGAAATGGGCTCTCG 13723
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Search completed: October 20, 2006, 09:33:50
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OTHER INFORMATION: AC008440

US-10-684-042-18

Query Match 98.0%; Score 24801; DB 1; Length 24801;
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QY 617 AAGGGGGCTGGGGGACTGGGGGACAGAGGACTAGGGGTGAGACTCTATCACGCCAC 676
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DB 2041 GGCTGGAGAGATAGGGGAGCTATCTGGCCAGATTCCTTGCCCTTGGCTGGAAAGGGG 2100

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DB	2101	GAATGCGAGGGGAGCTGACAGGCTGGGACACCGGTGGGGCACAGAGAGGAGCGCGGGT	2160
QY	2417	GAGGAGACTGAAGATGGGTGCTGCCGGGGTGGGCTGTGATCCAGGGGTGAAGGGATTTA	2476
DB	2161	GAGGAGACTGAAGATGGGTGCTGCCGGGGTGGGCTGTGATCCAGGGGTGAAGGGATTTA	2220
QY	2477	AAATATGAGAGCTCAGGGGACACGGAGAAATATCATGTCAGGTCGGGTCGGAGTCCCAAC	2536
DB	2221	AAATATGAGAGCTCAGGGGACACGGAGAAATATCATGTCAGGTCGGGTCGGAGTCCCAAC	2280
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DB	2341	AGACTGAAGCTGAGGACAGAGAGAGAGATGAGACAGAGAAGAAACCAAGGAGAAAGA	2400
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DB	2641	CTCCATCAGAGGCTCAACAAGCCAGTCAACCCCTGAGTGCCCAATTCCTCTCTCTG	2700
QY	2957	CTTTATCTGAGCCCTCAGTTCTCTCTCTATAAATGGGCTGATGATCAGATTGAC	3016
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DB	2761	CAACAGAACTGTTTACAGTGACGGAAGCAATCTGTATCATGCTGCTCAATAGGAGCCA	2820
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DB	2881	TCCATTTCTGTCATTTGAATGGCTTAAATTTTTTTTTTTTTTTTATTTTTTTTGGAGAC	2940
QY	3197	GGAGTGGGCTCTGTTGGCCCAAGCTGAGTGAGTGCGCGAGTCTCAGCTCAATGCACT	3256
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QY	3257	TCCGTTTCCAGGTTCAAGCAATTTCTTACCTCAGCCCTCCTGAGTAGCTGGGACTACAG	3316
DB	3001	TCCGTTTCCAGGTTCAAGCAATTTCTTACCTCAGCCCTCCTGAGTAGCTGGGACTACAG	3060
QY	3317	GGGATGCCACACACCCCGCTAAATTTTTTTTGTATTTTTTAGTAGAGTGGGTTTACC	3376
DB	3061	GGGATGCCACACACCCCGCTAAATTTTTTTTGTATTTTTTAGTAGAGTGGGTTTACC	3120
QY	3377	ATGTTGGCCAGGCTGTCTCGAACTCTCGACCTTGTGATCCACCCGCTCGGCTCCCAA	3436
DB	3121	ATGTTGGCCAGGCTGTCTCGAACTCTCGACCTTGTGATCCACCCGCTCGGCTCCCAA	3180
QY	3437	AGTGTGGGATTTACAGGGGTGAGCCACCGCGCCCGGAGAACTGACTTAAATTTAAACAG	3496

DB	3181	AGTGTGGGATTTACAGCGGTGAGCCACCGCGCCCGGACAGAACTGACTTAAATTTAAACAG	3240
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DB	3241	CCACATGTATGTAGTGGCCACCAATGGGACAGCACACATCTGGACACTTCCAGGCTTGT	3300
QY	3557	TTTGAAGTCAAGTGGGTTTTCAGAGTTTCGGCCAGGGTTTGACACAAGATCGGACACAGTTT	3616
DB	3301	TTTGAAGTCAAGTGGGTTTTCAGAGTTTCGGCCAGGGTTTGACACAAGATCGGACACAGTTT	3360
QY	3617	TATGATGTACAGATGAGAGAGAGGACAGAGAGAGATCCACAGAAGTCCATGAGGCG	3676
DB	3361	TATGATGTACAGATGAGAGAGAGGACAGAGAGAGATCCACAGAAGTCCATGAGGCG	3420
QY	3677	TTTTACCACTCTCAGCTGAAATAAACAAGATCTTACATAGAAGATGTGACTTCATAGA	3736
DB	3421	TTTTACCACTCTCAGCTGAAATAAACAAGATCTTACATAGAAGATGTGACTTCATAGA	3480
QY	3737	ACATATATTGACACCACTCTTACCAGCACCTGTATGTGATGTGATGACCCCTCGTCC	3796
DB	3481	ACATATATTGACACCACTCTTACCAGCACCTGTATGTGATGTGATGACCCCTCGTCC	3540
QY	3797	ACTCACTCCGCGCACCAACACAGATAGTCTGATGCTCAGTGTCTCATTTGGGTACACT	3856
DB	3541	ACTCACTCCGCGCACCAACACAGATAGTCTGATGCTCAGTGTCTCATTTGGGTACACT	3600
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DB	3601	CATCAAGATTTTTTTTTTTTTTTTGGTGTAAATCCAGCTACTCGGAGGCTGAGGCA	3660
QY	3917	GAAATGCTTGAACCTGAGCGGAGAGGTTGCAAGTGGGCAAGATCACGCCACTGCACTCC	3976
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QY	3977	AGCCTGGGTGACAGAGCAAGACTTGTCTTGGAAAAAAGATTTTTTTTTTTTGT	4036
DB	3721	AGCCTGGGTGACAGAGCAAGACTTGTCTTGGAAAAAAGATTTTTTTTTTTTGT	3780
QY	4037	TGTTGTTTGTGTTGATTTTGGGTTATTTTGTAGATGAGTTTCACTGTGACCCAGGC	4096
DB	3781	TGTTGTTTGTGTTGATTTTGGGTTATTTTGTAGATGAGTTTCACTGTGACCCAGGC	3840
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DB	3841	TGGAGTGACACTGGTCAATCTTGGTTCACTGCAACTCTTACCTCCAGGTTCAAGCGATT	3900
QY	4157	CTCATGCTCAGCCCTCCGAGTAGCTGGGACTAGAAACAGGATGAGCCCACTGCGCGC	4216
DB	3901	CTCATGCTCAGCCCTCCGAGTAGCTGGGACTAGAAACAGGATGAGCCCACTGCGCGC	3960
QY	4217	TAAATTTTATATTTTAGTAGACAGGGTTTATCATGCTGGCCAAAGCTTGTCTCT	4276
DB	3961	TAAATTTTATATTTTAGTAGACAGGGTTTATCATGCTGGCCAAAGCTTGTCTCTCT	4020
QY	4277	GACCTCAGTATCCACCCACTCGGCTCCCAAGTCTGGGATTAAGAGGCTGAGCCA	4336
DB	4021	GACCTCAGTATCCACCCACTCGGCTCCCAAGTCTGGGATTAAGAGGCTGAGCCA	4080
QY	4337	CCGACCCAGCGGATTTTTTGGGTTTTTGTAGACAGGGTCCCACTCTGTCACTAGACTG	4396
DB	4081	CCGACCCAGCGGATTTTTTGGGTTTTTGTAGACAGGGTCCCACTCTGTCACTAGACTG	4140
QY	4397	GAGTACAGTATGGATCATAGCTCACTGACGCTTGAATTTCTCCAGGCTCAAGTGTCTCC	4456
DB	4141	GAGTACAGTATGGATCATAGCTCACTGACGCTTGAATTTCTCCAGGCTCAAGTGTCTCC	4200
QY	4457	TCCTGCCCGGCTCTCAAGTAGCTGGGACTATAGGCAAGGCAACACACCTAGCTAAT	4516
DB	4201	TCCTGCCCGGCTCTCAAGTAGCTGGGACTATAGGCAAGGCAACACACCTAGCTAAT	4260
QY	4517	TAAAAAAGATTTTGTAGAGATGAGTCTCACTCATATATTTGCCAGGCTGGTCTT	4576

Db 4261 TAAAAAAGATGTTTTTGTAGAGATGGAGTCTCACTCACTATATTGCCAGGCTGGTCTT 4320
QY 4577 CAACTCTGGTCTCACTCGAATCTCTGCTCAGCTCCCAAAATGATGGATTTACAGC 4636
Db 4321 CAACTCCTGGTCTCACTCGAATCTCTGCTCAGCTCCCAAAATGATGGATTTACAGC 4380
QY 4637 GTGAGCACTGACACCTGGCTCAAGTATTTTGTATACAGTATAGTTGATCCACACAAC 4696
Db 4381 GTGAGCACTGACACCTGGCTCAAGTATTTTGTATACAGTATAGTTGATCCACACAAC 4440
QY 4697 AGCTTATTTGGTTATTTTCCCTGCTATCTCGTTTGAATCCAGCTCCACACCTTTTG 4756
Db 4441 AGCTTATTTGGTTATTTTCCCTGCTATCTCGTTTGAATCCAGCTCCACACCTTTTG 4500
QY 4757 GTTCTGTGACATTTCTGTAGTTAAATTTACCTCTCTGCACTTGTGAAATCTCTGTTGTA 4816
Db 4501 GTTCTGTGACATTTCTGTAGTTAAATTTACCTCTCTGCACTTGTGAAATCTCTGTTGTA 4560
QY 4817 AAGTGGAGATGATAATATGCTCACTATGGAATGTTTGAAGATTTAGTGAGTCAGACAT 4876
Db 4561 AAGTGGAGATGATAATATGCTCACTATGGAATGTTTGAAGATTTAGTGAGTCAGACAT 4620
QY 4877 TTGGGATGTTTCTGCACATAGCAAGAGCCAAAATATTTATTTTCTTTGTTAAAT 4936
Db 4621 TTGGGATGTTTCTGCACATAGCAAGAGCCAAAATATTTATTTTCTTTGTTAAAT 4680
QY 4937 TATTTATGACCAATGAGGAAACGAGTGAATAGTGAGAGAGATCTTCTCTGCAATC 4996
Db 4681 TATTTATGACCAATGAGGAAACGAGTGAATAGTGAGAGAGATCTTCTCTGCAATC 4740
QY 4997 ACTCGGGGTTTTTTTGTGTTTTTTTTTTTTTGTGTTGAGACAGGGTCTCACTCTGTTG 5056
Db 4741 ACTCGGGGTTTTTTTGTGTTTTTTTTTTTTTGTGTTGAGACAGGGTCTCACTCTGTTG 4800
QY 5057 CCCAGGCTGGAGTCAATAGTCTATCACTGCTCACTGCACTGCTGCTGCTGCTGCTGCTCA 5116
Db 4801 CCCAGGCTGGAGTCAATAGTCTATCACTGCTCACTGCTCACTGCTGCTGCTGCTGCTCA 4860
QY 5117 AGTGATTCAGTCTGGCAGTTGATCTTTAAAGTAACTACATGACGCGGAGGACAGTGGC 5176
Db 4861 AGTGATTCAGTCTGGCAGTTGATCTTTAAAGTAACTACATGACGCGGAGGACAGTGGC 4920
QY 5177 TCACGCTGTAACTCCAACTTTGGGAGCCGAGCGGGTGGATCACTGAGGTTGGGA 5236
Db 4921 TCACGCTGTAACTCCAACTTTGGGAGCCGAGCGGGTGGATCACTGAGGTTGGGA 4980
QY 5237 GTTCGAGACCAAGCTGACCAACATGGAGAACCCAGTGTCTACTAAGAAATACAAATTTAG 5296
Db 4981 GTTCGAGACCAAGCTGACCAACATGGAGAACCCAGTGTCTACTAAGAAATACAAATTTAG 5040
QY 5297 CTGGGCTGGTGGCACAGCCTGTAATCCAGCTACTCAGGAGGCTGAGGACAGGAGATC 5356
Db 5041 CTGGGCTGGTGGCACAGCCTGTAATCCAGCTACTCAGGAGGCTGAGGACAGGAGATC 5100
QY 5357 ACTTGAACCCAGGAGCGAGGTTGCACTGAGCCAAAGATTGCGCCATTGCACTCCAGGCT 5416
Db 5101 ACTTGAACCCAGGAGCGAGGTTGCACTGAGCCAAAGATTGCGCCATTGCACTCCAGGCT 5160
QY 5417 GGGCAGCAAGAACAAACCTCTGCTCAAAAAAATTTTAAAAAATTTTAAAAAATTTTAAAAA 5476
Db 5161 GGGCAGCAAGAACAAACCTCTGCTCAAAAAAATTTTAAAAAATTTTAAAAAATTTTAAAAA 5220
QY 5477 AAAAGGTAACTGCTTGAACAGGAGTGTGGCTCATGCTGTAATCCAGCTCTTTGGG 5536
Db 5221 AAAAGGTAACTGCTTGAACAGGAGTGTGGCTCATGCTGTAATCCAGCTCTTTGGG 5280
QY 5537 AGGCTGAGGCAAGCGGATCAGCAGGTCAGGAGATCCAAACCACTCTGCTGCTAACCGGTTGA 5596
Db 5281 AGGCTGAGGCAAGCGGATCAGCAGGTCAGGAGATCCAAACCACTCTGCTGCTAACCGGTTGA 5340
QY 5597 AACCCGCTCTCTACTAAAAAATTAACAAAAATTTAGCAGGACGCGGTGGCAGCGCTGTAGT 5656
Db 5341 AACCCGCTCTCTACTAAAAAATTAACAAAAATTTAGCAGGACGCGGTGGCAGCGCTGTAGT 5400

QY 5657 CCCAGCTACTCGGAGGCTGAGGAGGATATCGCTTTGAAACCCCGAGGACAGAGTTGCA 5716
Db 5401 CCCAGCTACTCGGAGGCTGAGGAGGATATCGCTTTGAAACCCCGAGGACAGAGTTGCA 5460
QY 5717 GTGAGCGAGATCACACCTGCACTCTAGCTCGGCGACAGAGTGAAGTCCATCTCAA 5776
Db 5461 GTGAGCGAGATCACACCTGCACTCTAGCTCGGCGACAGAGTGAAGTCCATCTCAA 5520
QY 5777 AAAAAAATTTTAAAAAATTTTAAAAAATTTTAAAAAATTTTAAAAAATTTTAAAAA 5836
Db 5521 AAAAAAATTTTAAAAAATTTTAAAAAATTTTAAAAAATTTTAAAAAATTTTAAAAA 5580
QY 5837 CCCAGGAGGAGCACATGCCCTTCAAGCGGTAAATCTCAGGCTTTTAAAAAAGGG 5896
Db 5581 CCCAGGAGGAGCACATGCCCTTCAAGCGGTAAATCTCAGGCTTTTAAAAAAGGG 5640
QY 5897 CAGCGTGTGAGGCGCACCTAGCTGGGTAGGGATAGAGGCAAGATTTGAACTCTGTATGT 5956
Db 5641 CAGCGTGTGAGGCGCACCTAGCTGGGTAGGGATAGAGGCAAGATTTGAACTCTGTATGT 5700
QY 5957 ATGTAAACACAGCCTCTCGTCTCTCTTTTAAACAGCGATTCACCTTTTGAGATAA 6016
Db 5701 ATGTAAACACAGCCTCTCGTCTCTCTTTTAAACAGCGATTCACCTTTTGAGATAA 5760
QY 6017 GAACAGCAGCTCTGTCTGTGGATGTTGTGTCTCAGGAGCCTGCTGAGAACCTTCAC 6076
Db 5761 GAACAGCAGCTCTGTCTGTGGATGTTGTGTCTCAGGAGCCTGCTGAGAACCTTCAC 5820
QY 6077 ACACAGCATCTTATTTAGTGGCGAGAAACCTTTTGAAGTTAGGTCAGCGAGATTTT 6136
Db 5821 ACACAGCATCTTATTTAGTGGCGAGAAACCTTTTGAAGTTAGGTCAGCGAGATTTT 5880
QY 6137 GAACCCAGCACATTTGAAAGGATCTCTGAAACCTGCAACACCTCTCTACCCAAATAT 6196
Db 5881 GAACCCAGCACATTTGAAAGGATCTCTGAAACCTGCAACACCTCTCTACCCAAATAT 5940
QY 6197 ATATTCAAACTAGAAAACCCCACTAAATAGATGAAAAATCCAAAGATGGCTTAAATGTTCA 6256
Db 5941 ATATTCAAACTAGAAAACCCCACTAAATAGATGAAAAATCCAAAGATGGCTTAAATGTTCA 6000
QY 6257 CCCTGTGATTAATCTCTTTTAAATGATTTTAAAGATCAAGATTTTAAACAGCAGATTTGT 6316
Db 6001 CCCTGTGATTAATCTCTTTTAAATGATTTTAAAGATCAAGATTTTAAACAGCAGATTTGT 6060
QY 6317 CCCGGGCTAGTGGTGGCGAGGAGGAGGATCTCACTGATGACCTGCACTTCTTGC 6376
Db 6061 CCCGGGCTAGTGGTGGCGAGGAGGAGGATCTCACTGATGACCTGCACTTCTTGC 6120
QY 6377 TTAATGGACCTCTGAAATTTAGCAATTTCTTCAAAATATAGATTTTATTTTCCACTTGAC 6436
Db 6121 TTAATGGACCTCTGAAATTTAGCAATTTCTTCAAAATATAGATTTTATTTTCCACTTGAC 6180
QY 6437 AGAGGAGATGCTGAGGCTCAAACTGGGAATGAACCTGCCCCCAATCAACAGCTGAGA 6496
Db 6181 AGAGGAGATGCTGAGGCTCAAACTGGGAATGAACCTGCCCCCAATCAACAGCTGAGA 6240
QY 6497 AGCGGCTAGCTCTTACTTCACTTCACTTCACTTCACTTCACTTCACTTCACTTCACT 6556
Db 6241 AGCGGCTAGCTCTTACTTCACTTCACTTCACTTCACTTCACTTCACTTCACTTCACT 6300
QY 6557 ATAAACCAAGTAAATGATTTGGGAGCATCTAACTGTTAGGACAGCTATGTTTGTATCA 6616
Db 6301 ATAAACCAAGTAAATGATTTGGGAGCATCTAACTGTTAGGACAGCTATGTTTGTATCA 6360
QY 6617 CCAATTTATTTTATTTAGGCTCTCTGTTTCTTATTAATCACTGAGAGGTCATGTTCTCAT 6676
Db 6361 CCAATTTATTTTATTTAGGCTCTCTGTTTCTTATTAATCACTGAGAGGTCATGTTCTCAT 6420
QY 6677 TCCACCTGGAGCTCAGAGAGGACATCACTATGACACTGACAGAGCTGCGAGTGAAGG 6736
Db 6421 TCCACCTGGAGCTCAGAGAGGACATCACTATGACACTGACAGAGCTGCGAGTGAAGG 6480

QY	6737	AGCTGGGGTT	CAGGTTGGCCCA	CAAGTCTCTCAAA	TAAATCAATCTGTGGAGTTGGGGGAT	6796
DB	6481	AGCTGGGGTT	CAGGTTGGCCCA	CAAGTCTCTCAAA	TAAATCAATCTGTGGAGTTGGGGGAT	6540
QY	6797	GGGAAC	TATGGGAGTT	TGGAAGCTCTCGCTCCTT	CATGTTCTGCCCCAGATATCATTTGG	6856
DB	6541	GGGAAC	TATGGGAGTT	TGGAAGCTCTCGCTCCTT	CATGTTCTGCCCCAGATATCATTTGG	6600
QY	6857	TCAGCGAG	CCCCCTGCGCACT	CCCCCTGCACACAGTTT	TGTTGTGTTGTGTTGTTGTTG	6916
DB	6601	TCAGCGAG	CCCCCTGCGCACT	CCCCCTGCACACAGTTT	TGTTGTGTTGTGTTGTTGTTG	6660
QY	6917	AGACAGA	ATCTGTCTCTCAT	TCCAGGCTGAGTGCAGTGC	GCAAACTCTGGCTCACTGC	6976
DB	6661	AGACAGA	ATCTGTCTCTCAT	TCCAGGCTGAGTGCAGTGC	GCAAACTCTGGCTCACTGC	6720
QY	6977	AACCTCGG	CCCTCTGGAT	TTCAGGCAATTTCTCAT	TGCTCAGGCTCTCTGAGTAGTGGGATT	7036
DB	6721	AACCTCGG	CCCTCTGGAT	TTCAGGCAATTTCTCAT	TGCTCAGGCTCTCTGAGTAGTGGGATT	6780
QY	7037	ACAGGCAT	GTGCAACCACTGT	CCGGCTAAATTTTGTAT	TTTTTAGTAGAGACAGAGTTTTGC	7096
DB	6781	ACAGGCAT	GTGCAACCACTGT	CCGGCTAAATTTTGTAT	TTTTTAGTAGAGACAGAGTTTTGC	6840
QY	7097	CATGTTGC	CTAGCTGTGCTCCGGA	ACTCTCTGAGCTCAAGGCA	ATCCGGCCACCTCGGCCTC	7156
DB	6841	CATGTTGC	CTAGCTGTGCTCCGGA	ACTCTCTGAGCTCAAGGCA	ATCCGGCCACCTCGGCCTC	6900
QY	7157	CCAAAGT	CTGGGATTACAGGC	ATGAGCCACCGCACCCAGC	AGACACACCGTATTTAAA	7216
DB	6901	CCAAAGT	CTGGGATTACAGGC	ATGAGCCACCGCACCCAGC	AGACACACCGTATTTAAA	6960
QY	7217	ATTTCAAT	CCCCCAACTTCTGGT	GGTCCCCATCCCTGCCTCAT	TTTTTCTCCAGAGCACC	7276
DB	6961	ATTTCAAT	CCCCCAACTTCTGGT	GGTCCCCATCCCTGCCTCAT	TTTTTCTCCAGAGCACC	7020
QY	7277	CATTACCA	CCCATCAAACTATATG	TTTATTTACCATGTTTAA	CAATCTGTATCCCT	7336
DB	7021	CATTACCA	CCCATCAAACTATATG	TTTATTTACCATGTTTAA	CAATCTGTATCCCT	7080
QY	7337	CCATTAG	GAAGTAACTCCAT	GTGCACAAAGAGTTTTTTTTT	TCATTTGTTTAATGCTG	7396
DB	7081	CCATTAG	GAAGTAACTCCAT	GTGCACAAAGAGTTTTTTTTT	TCATTTGTTTAATGCTG	7140
QY	7397	GGTCCC	CACACCAAGAAC	GAGTCCCTGGCCACACAGC	AGTGCTCAATGATTTATGGTACAT	7456
DB	7141	GGTCCC	CACACCAAGAAC	GAGTCCCTGGCCACACAGC	AGTGCTCAATGATTTATGGTACAT	7200
QY	7457	AGAGTGA	AGAGATGGAGCT	CAGGCTGACCTAGAG	AGCAAGGAGAGGAAAGATAAA	7516
DB	7201	AGAGTGA	AGAGATGGAGCT	CAGGCTGACCTAGAG	AGCAAGGAGAGGAAAGATAAA	7260
QY	7517	AGSGCC	CTCCCTGGGGTTTTAG	GCACCTCCCAAGCCCCCTA	AGCCAGTCTTCTCTGC	7576
DB	7261	AGSGCC	CTCCCTGGGGTTTTAG	GCACCTCCCAAGCCCCCTA	AGCCAGTCTTCTCTGC	7320
QY	7577	CCCAGG	ACCCCGGAAACAA	CAAGTCCCGCTGCAT	AGCTACAGCAGCCCACTTC	7636
DB	7321	CCCAGG	ACCCCGGAAACAA	CAAGTCCCGCTGCAT	AGCTACAGCAGCCCACTTC	7380
QY	7637	TGGGA	CCATGTGGCTCCCTC	CTACGGGCTGTGCA	CCAGGGCATGAATGCTCTGT	7696
DB	7381	TGGGA	CCATGTGGCTCCCTC	CTACGGGCTGTGCA	CCAGGGCATGAATGCTCTGT	7440
QY	7697	GAGTGAC	CTGGGCTTGGC	AGGGGCCCTTCAA	AGCGCCGGTCTGGGTTCCGGGAAATGC	7756
DB	7441	GAGTGAC	CTGGGCTTGGC	AGGGGCCCTTCAA	AGCGCCGGTCTGGGTTCCGGGAAATGC	7500
QY	7757	CCGGGA	TGGGGTGGGGGTG	AGTCTTGGCTTGGGGCGGGG	CTCAGGTGCTACCGCA	7816
DB	7501	CCGGGA	TGGGGTGGGGGTG	AGTCTTGGCTTGGGGCGGGG	CTCAGGTGCTACCGCA	7560
QY	7817	GCTTTT	CCCCCTCCAGGCT	TCGAGATGAAC	GTGCAACCGGCTGTGTGCGTAGGGGTGCGCTC	7876

Db	7561		GCTTTCCCTCCAGGCTCGAGATGAACGTCACCGCGCTGTGTGCTAGCGTGCCTC	7620
Qy	7877		CCTGTGCGGTGTGACACACCGAGCGCGCGGGCGCTGCGAGCTGGAGATCGGGTCC	7936
Db	7621		CCTGTGCGGTGTGAGACCAACCGAGCGCGCGGGCGCTGCGAGCTGGAGATCCGGGTCC	7680
Qy	7937		CACACGAGTGAATCCACGTAACTGTGTAGCGCCCGCCCTCGCTGGCGCCCGCCGCC	7996
Db	7681		CACACGAGTGAATCCACGTAACTGTGTAGCGCCCGCCCTCGCTGGCGCCCGCCGCC	7740
Qy	7997		TCCCAAGTGTAGCGGGGTGACCAAGGCACTTGCTGTGGCCCAAGCCCTACCCCAA	8056
Db	7741		TCCCAAGTGTAGCGGGGTGACCAAGGCACTTGCTGTGGCCCAAGCCCTACCCCAA	7800
Qy	8057		GATGGGGCAGCCTCTTTCTATGCTCAGCCCACTCTGTGACCCCACTCTGACCCCAAGGCG	8116
Db	7801		GATGGGGCAGCCTCTTTCTATGCTCAGCCCACTCTGTGACCCCAAGGCGCG	7860
Qy	8117		AGCACCCAGCCATACCCCTTTTGGCTCGAAGCCCGCCCTCCAACCTGGCTCTTTCGAA	8176
Db	7861		AGCACCCAGCCATACCCCTTTTGGCTCGAAGCCCGCCCTCCAACCTGGCTCTTTCGAA	7920
Qy	8177		CTTCTGCACTGTTAATGACTTTGACTTTCTTTTTTTTTTTTGGGACGGAGTTTCGCTCT	8236
Db	7921		CTTCTGCACTGTTAATGACTTTGACTTTCTTTTTTTTTTTTGGGACGGAGTTTCGCTCT	7980
Qy	8237		TGTTGCTCAAGCTGAGTGGAATGGGCGGATCTCGGCTCACTGCACTTCCTCCGCTCCCG	8296
Db	7981		TGTTGCTCAAGCTGAGTGGAATGGGCGGATCTCGGCTCACTGCACTTCCTCCGCTCCCG	8040
Qy	8297		GTTCAAGTGATTCTTCCTGCTCAGCCTCCCGAGTAGCTGGGATACAGGCGCGTGCACC	8356
Db	8041		GTTCAAGTGATTCTTCCTGCTCAGCCTCCCGAGTAGCTGGGATACAGGCGCGTGCACC	8100
Qy	8357		AAGCCCGGTAAATTTTTTGATTTTATTTAGTACAAACGGGGTTCCCATGTTAGCCAGGT	8416
Db	8101		AAGCCCGGTAAATTTTTTGATTTTATTTAGTACAAACGGGGTTCCCATGTTAGCCAGGT	8160
Qy	8417		GGTCTCAACTCTGACCCAGTGATCCCTCGACTCGGCTCCCAAGTGTGGGAT	8476
Db	8161		GGTCTCAACTCTGACCCAGTGATCCCTCGACTCGGCTCCCAAGTGTGGGAT	8220
Qy	8477		AACAGGCGTGAGCCACCGCGCTCGGCAATGGCTTTCTTTTTTGTTTTTATTTATGTTT	8536
Db	8221		AACAGGCGTGAGCCACCGCGCTCGGCAATGGCTTTCTTTTTTGTTTTTATTTATGTTT	8280
Qy	8537		ATTTTTTTGATGGAGTCTTGCTCTGTCAACCAGGCTGGAGTGCAAGTGCAATCTTG	8596
Db	8281		ATTTTTTTGATGGAGTCTTGCTCTGTCAACCAGGCTGGAGTGCAAGTGCAATCTTG	8340
Qy	8597		GCTCAGTCAATCTCGCTCCGGGTCAAGGATCTCTCGCTCAGCCTCCGAGTA	8656
Db	8341		GCTCAGTCAATCTCGCTCCGGGTCAAGGATCTCTCGCTCAGCCTCCGAGTA	8400
Qy	8657		GCTGGAATACAGGCGCTGCCACCACTCGGCTAAATTTTTTTTTTTTTTTTTTTTGA	8716
Db	8401		GCTGGAATACAGGCGCTGCCACCACTCGGCTAAATTTTTTTTTTTTTTTTTTTTGA	8460
Qy	8717		GACAAGATCTGCTGTGTCAGGCTGGAGTGCAATGATCTCAGTCACTGCA	8776
Db	8461		GACAAGATCTGCTGTGTCAGGCTGGAGTGCAATGATCTCAGTCACTGCA	8520
Qy	8777		ACTTCGCTCTCAGGTTCAAGGATTTCTCTGCTTCAGCTCTCTGAGTAGCTGGACTA	8836
Db	8521		ACTTCGCTCTCAGGTTCAAGGATTTCTCTGCTTCAGCTCTCTGAGTAGCTGGACTA	8580
Qy	8837		CAGGTGATGACACTGACCCAGCTCATTTTTGTATTTTTTAGTAGACAGGTTTCACC	8896
Db	8581		CAGGTGATGACACTGACCCAGCTCATTTTTGTATTTTTTAGTAGACAGGTTTCACC	8640
Qy	8897		ATGCTAGCCAGGCTGTGTGGAACTCCTGACCTCAGGTGATCCGGCGCTCCGCTCC	8956

Db 8641 ATGCTAGCAGGCTGCTGGAACCTCTGACCTCAGGTGATCCGCCCGCTCCGCTCCC 8700
 QY 8957 AAAAGTCTGGGATTAACAGGGGTGAGAACCGTCCCGGCAATGGCTTCTGGGTATAAGGA 9016
 Db 8701 AAAAGTCTGGGATTAACAGGGGTGAGAACCGTCCCGGCAATGGCTTCTGGGTATAAGGA 8760
 QY 9017 TCTTGAGAAAGGAGAGTACTCGTTCTGAGGAGAGCTGTGGTTTCACTGTGTACATGG 9076
 Db 8761 TCTTGAGAAAGGAGAGTACTCGTTCTGAGGAGAGCTGTGGTTTCACTGTGTACATGG 8820
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 Db 8821 CCAGGGTCCAAACTCTGGTTCTTAATGGAGAGAGGGCTCTGGATCTGATTTACAGGGTCA 8880
 QY 9137 CTGGTTGCGGAAAGGGCTCTATGCCCTGTCTTCTGGGTTCTGGAGAGGTAAAGTCAATG 9196
 Db 8881 CTGGTTGCGGAAAGGGCTCTATGCCCTGTCTTCTGGGTTCTGGAGAGGTAAAGTCAATG 8940
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 Db 8941 AGAAACGAGACTGAGAGCTTGGAAATCTTTTTTTTTTTTTTTTTTTTTTTTGGAGCGGAGTCTCGCTG 9000
 QY 9257 TGACGCCAGGCTGGAGTGCAGTGGCGTAACTCTCGGCTCACTGCAAGCTCCGACTCTCTGG 9316
 Db 9001 TGACGCCAGGCTGGAGTGCAGTGGCGTAACTCTCGGCTCACTGCAAGCTCCGACTCTCTGG 9060
 QY 9317 GTTCAAGTCAATCTCCCGCTCAGGCTCTAGTGTAGTGGGACCAAGAGCTCCGACTCTCTGG 9376
 Db 9061 GTTCAAGTCAATCTCCCGCTCAGGCTCTAGTGTAGTGGGACCAAGAGCTCCGACTCTCTGG 9120
 QY 9377 AGCCCGAGCTAATTTTTTTTTTTTTTTTTTTTTTTTGTAGTGGAGACGGGTTTCAACATTC 9436
 Db 9121 AGCCCGAGCTAATTTTTTTTTTTTTTTTTTTTTTTTGTAGTGGAGACGGGTTTCAACATTC 9180
 QY 9437 CAGGATGTCTCGATCTCTCGACTTGTGATCCGCCCGCTTGGCTCCCAAGTGTCTG 9496
 Db 9181 CAGGATGTCTCGATCTCTCGACTTGTGATCCGCCCGCTTGGCTCCCAAGTGTCTG 9240
 QY 9497 GATTACAGCATGAGCGCGCTGCTGGCAAGCTTGGAACTTGTGATGTGATGTGATGTG 9556
 Db 9241 GATTACAGCATGAGCGCGCTGCTGGCAAGCTTGGAACTTGTGATGTGATGTGATGTG 9300
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 Db 9301 GAGGCTGGAGCCCTTCTCGATCTCTAACCCGCTCACTCTTCTCACTCCCGCTT 9360
 QY 9617 AGTTGGCAGGCGCGTAACTTAATCTATGACCCCAATGGTCTCTCTGATCCCTATGT 9676
 Db 9361 AGTTGGCAGGCGCGTAACTTAATCTATGACCCCAATGGTCTCTCTGATCCCTATGT 9420
 QY 9677 GAAACTGAAGCTCATCCAGACCTCGGAACCTGACGAAAGAGAGACCCGAAACGGTGA 9736
 Db 9421 GAAACTGAAGCTCATCCAGACCTCGGAACCTGACGAAAGAGAGACCCGAAACGGTGA 9480
 QY 9737 AGCCAGCTTAAACCTTGTGGAATGAGACCTTGTGTGAGTCTGGGTTGAGGAA 9796
 Db 9481 AGCCAGCTTAAACCTTGTGGAATGAGACCTTGTGTGAGTCTGGGTTGAGGAA 9540
 QY 9797 GGCAATGACAGCTGACAGAGATGATCTGAGGGTCTAGTGGCCCCCAGAGAGAGCTGA 9856
 Db 9541 GGCAATGACAGCTGACAGAGATGATCTGAGGGTCTAGTGGCCCCCAGAGAGAGCTGA 9600
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 QY 9917 AATAGAGTCAATGAGGAGTGGATGAGATACAGAAACGGAGAGACAGCCAGACCTG 9976
 Db 9661 AATAGAGTCAATGAGGAGTGGATGAGATACAGAAACGGAGAGACAGCCAGACCTG 9720
 QY 9977 TATAATTAAGTCTCAATGAG 10036
 Db 9721 TATAATTAAGTCTCAATGAG 9780

QY 10037 AGAGAGTCTCAGAGAGGAGAAACCCAAAGAGAGACACAGATGGAGAGGAGGAGAA 10096
 Db 9781 AGAGAGTCTCAGAGAGGAGAAACCCAAAGAGAGACACAGATGGAGAGGAGGAGAA 9840
 QY 10097 GATGGGGATGGCAGGGAGAGACAGAGATCAGTTGACAGGAAGAGAGAGTGTAGAGACCA 10156
 Db 9841 GATGGGGATGGCAGGGAGAGACAGAGATCAGTTGACAGGAAGAGAGAGTGTAGAGACCA 9900
 QY 10157 GAGAGAGAGAGGGGTACAGAGACTCAGAGAGAGAGATCTCGAGAGACAGAGACAGAG 10216
 Db 9901 GAGAGAGAGAGGGGTACAGAGACTCAGAGAGAGAGATCTCGAGAGACAGAGACAGAG 9960
 QY 10217 TGGGAAGGGCGGAGAGATGACAGAGAGAGAGAGAGAGTCTCTAGGTTTACTTTTCTAG 10276
 Db 9961 TGGGAAGGGCGGAGAGATGACAGAGAGAGAGAGAGAGTCTCTAGGTTTACTTTCTAG 10020
 QY 10277 GCCCAAAGCCCTAGCTGGAGAGAGAGAGAGAGAGTCTCGGAAGGTGAGAGAGAGAG 10336
 Db 10021 GCCCAAAGCCCTAGCTGGAGAGAGAGAGAGAGAGTCTCGGAAGGTGAGAGAGAGAG 10080
 QY 10337 AAAGCAG 10396
 Db 10081 AAAGCAG 10140
 QY 10397 GAACCGAGGGAG 10456
 Db 10141 GAACCGAGGGAG 10200
 QY 10457 CCTGAAGCCAGGGAG 10516
 Db 10201 CCTGAAGCCAGGGAG 10260
 QY 10517 CTCCGCAACGACTTCAATGGGGGCGATGCTTGGGCTCTCGAGAGTCTCAAGAGCGCC 10576
 Db 10261 CTCCGCAACGACTTCAATGGGGGCGATGCTTGGGCTCTCGAGAGTCTCAAGAGCGCC 10320
 QY 10577 CGTGGATGGTGTGAG 10636
 Db 10321 CGTGGATGGTGTGAG 10380
 QY 10637 CCATCTGTGTGTGTCTCTCTCCAGGCGCATGCTCTCCCTCTCCCTCTCCCTCTCTCT 10696
 Db 10381 CCATCTGTGTGTGTCTCTCTCCAGGCGCATGCTCTCCCTCTCCCTCTCCCTCTCTCT 10440
 QY 10697 GCAC 10756
 Db 10441 GCAC 10500
 QY 10757 ATTCTTCTCTTCT 10816
 Db 10501 ATTCTTCTCTTCT 10560
 QY 10817 TCTCTTCCATCTCTGT 10876
 Db 10561 TCTCTTCCATCTCTGT 10620
 QY 10877 TCTCCCATGGGTGCCCCATCCCGCTCCCGCTCTGGTCTCCGTCTGTATGTCAAGTAC 10936
 Db 10621 TCTCCCATGGGTGCCCCATCCCGCTCCCGCTCTGGTCTCCGTCTGTATGTCAAGTAC 10680
 QY 10937 AAGTTACTGAACCAAGGAGGAGGAGAGATTTACAAATGTGCGGTGGCGGATGTCTGACAA 10996
 Db 10681 AAGTTACTGAACCAAGGAGGAGGAGAGATTTACAAATGTGCGGTGGCGGATGTCTGACAA 10740
 QY 10997 TGCAGCCTCTCTCAGAAAGTTGAGGTACCAAGAGAGAGAGAGAGAGAGAGAGAGAGAG 11056
 Db 10741 TGCAGCCTCTCTCAGAAAGTTGAGGTACCAAGAGAGAGAGAGAGAGAGAGAGAGAGAG 10800
 QY 11057 CAGCCTCCAGGTTGAG 11116
 Db 10801 CAGCCTCCAGGTTGAG 10860

QY	11117	GACTACAGTTC	CCAGAGACCT	TAGACTCC	CTCCTGCTCT	TTCTTAGGGG	ACTCGAGCC	11176	
DB	10861	GACTACAGTTC	CCAGAGACCT	TAGACTCC	CTCCTGCTCT	TTCTTAGGGG	ACTCGAGCC	10920	
QY	11177	CCAGGTC	CTGATGGGA	ATTAGTTC	CTATATCG	CCATGGCT	TGAGGGCT	11236	
DB	10921	CCAGGTC	CTGATGGGA	ATTAGTTC	CTATATCG	CCATGGCT	TGAGGGCT	10980	
QY	11237	CACAGAC	CCCTGTTCT	AGGGCGAT	CCCTGATCT	CTTGGGAC	CCCTGATCTCTCTTCT	11296	
DB	10981	CACAGAC	CCCTGTTCT	AGGGCGAT	CCCTGATCT	CTTGGGAC	CCCTGATCTCTCTTCT	11040	
QY	11297	TTTCTCC	AGGCTGT	TAACCTAC	CCCTGGA	ATTGATGAG	TGAGTGAACACAGGGGCT	11356	
DB	11041	TTTCTCC	AGGCTGT	TAACCTAC	CCCTGGA	ATTGATGAG	TGAGTGAACACAGGGGCT	11100	
QY	11357	GAATGGG	AGGAGTTT	TGCTCT	ACTCTCTG	ATTTCTTA	TTCCTCTGACTTCTGCTT	11416	
DB	11101	GAATGGG	AGGAGTTT	TGCTCT	ACTCTCTG	ATTTCTTA	TTCCTCTGACTTCTGCTT	11160	
QY	11417	CAATTC	CCCCAC	ACATGAT	TGAGTTC	GAGACAT	TTTGTGCTGCTGAA	11476	
DB	11161	CAATTC	CCCCAC	ACATGAT	TGAGTTC	GAGACAT	TTTGTGCTGCTGAA	11220	
QY	11477	TAATCC	AGGATCC	AGAGAT	GAATCTG	ACCTCA	AGCAACTCTCAAGGTAGGACACAGT	11536	
DB	11221	TAATCC	AGGATCC	AGAGAT	GAATCTG	ACCTCA	AGCAACTCTCAAGGTAGGACACAGT	11280	
QY	11537	CACAGAT	ACTTAA	ATACAG	AGATGT	CTAAAT	TAGAGTAGCC	CAGGGCACTGAAGA	11596
DB	11281	CACAGAT	ACTTAA	ATACAG	AGATGT	CTAAAT	TAGAGTAGCC	CAGGGCACTGAAGA	11340
QY	11597	GGCTTA	ACGAGG	CACTAA	TCAC	CGCTGG	GGGAGGGTGCAGGGAGGACTTCCCTGAGG	11656	
DB	11341	GGCTTA	ACGAGG	CACTAA	TCAC	CGCTGG	GGGAGGGTGCAGGGAGGACTTCCCTGAGG	11400	
QY	11657	AGGTG	ACGCTGA	ATTGAT	CTTGAG	TTTTTAA	AAAAATTTTAAATTTTAAATTTTAAATTTTAAATTTT	11716	
DB	11401	AGGTG	ACGCTGA	ATTGAT	CTTGAG	TTTTTAA	AAAAATTTTAAATTTTAAATTTTAAATTTTAAATTTT	11460	
QY	11717	ATTTTAT	TTTTTAT	TCTGTC	CGCCAG	CTGGAG	TGCAATGGCAATCTCGGCTCACTG	11776	
DB	11461	ATTTTAT	TTTTTAT	TCTGTC	CGCCAG	CTGGAG	TGCAATGGCAATCTCGGCTCACTG	11520	
QY	11777	CAACCT	CCAGCTCC	CGGGT	CAAGCA	ATTCTT	TGCTCAGCTCTCTGAGTCTGGAT	11836	
DB	11521	CAACCT	CCAGCTCC	CGGGT	CAAGCA	ATTCTT	TGCTCAGCTCTCTGAGTCTGGAT	11580	
QY	11837	TACAGT	GACCGC	CAACAC	CCAGCT	TAATTTTT	TTTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTT	11896	
DB	11581	TACAGT	GACCGC	CAACAC	CCAGCT	TAATTTTT	TTTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTT	11640	
QY	11897	TGCGCAT	GTGGC	CAGCTG	ATCTAA	CTCCAA	AACTCAGGTGATCCGCTCGCTTGGC	11956	
DB	11641	TGCGCAT	GTGGC	CAGCTG	ATCTAA	CTCCAA	AACTCAGGTGATCCGCTCGCTTGGC	11700	
QY	11957	CTCCAA	AGTGTG	GGATAT	ACAG	GCATG	AGCCACTGGCCCGACCCATTTCTGAGTTTTT	12016	
DB	11701	CTCCAA	AGTGTG	GGATAT	ACAG	GCATG	AGCCACTGGCCCGACCCATTTCTGAGTTTTT	11760	
QY	12017	TATTTTT	TTTTT	TGAG	ACGGAG	TCTCG	CTGTGACGCCACAGCTGGAGTGCAGTGGTGGAT	12076	
DB	11761	TATTTTT	TTTTT	TGAG	ACGGAG	TCTCG	CTGTGACGCCACAGCTGGAGTGCAGTGGTGGAT	11820	
QY	12077	CTCGGCT	CACTG	CAAGT	CTCGGCT	CTCTG	GGTTTCA	CGCCATTTCTCTGCAATCAGCTCTCTG	12136
DB	11821	CTCGGCT	CACTG	CAAGT	CTCGGCT	CTCTG	GGTTTCA	CGCCATTTCTCTGCAATCAGCTCTCTG	11880
QY	12137	AGTAGCT	GGGACT	TACAGG	CGCCCA	CACCAT	CGCCGCTAAATTTTGTATTTTGTATTTAGTAG	12196	
DB	11881	AGTAGCT	GGGACT	TACAGG	CGCCCA	CACCAT	CGCCGCTAAATTTTGTATTTTGTATTTAGTAG	11940	
QY	12197	AGATGGG	GGTTT	CACCGT	GTATAG	CCAGGAT	GGTCTCGATCTCTGACCTGGTGATCCACCC	12256	

DB	11941	AGATGGG	GGTTT	CACCGT	GTATAG	CCAGGAT	GGTCTCGATCTCTGACCTGGTGATCCACCC	12000		
QY	12257	GCCTC	AGCCTCC	CAAA	AGTGTGG	GATTA	CAGGCGTGAGCCACCA	CCAGCCGATTTCTT	12316	
DB	12001	GCCTC	AGCCTCC	CAAA	AGTGTGG	GATTA	CAGGCGTGAGCCACCA	CCAGCCGATTTCTT	12060	
QY	12317	GAGTTT	AAAAAT	CTAT	CAAG	CATGAT	CTCTTAATCTCTCCATTCATTCACCTCA	12376		
DB	12061	GAGTTT	AAAAAT	CTAT	CAAG	CATGAT	CTCTTAATCTCTCCATTCATTCACCTCA	12120		
QY	12377	CTGAAT	ATCTCT	TTTTCT	TTTTCT	TTTTCT	TTTTCTTTTTT	TTCAGACAGAAATCTCC	12436	
DB	12121	CTGAAT	ATCTCT	TTTTCT	TTTTCT	TTTTCT	TTTTCTTTTTT	TTCAGACAGAAATCTCC	12180	
QY	12437	TTTTT	GTCA	CCAG	GGTGG	AGTG	CAGTGT	CACTCAGCTCACTGCAACCTCTGCTCTCC	12496	
DB	12181	TTTTT	GTCA	CCAG	GGTGG	AGTG	CAGTGT	CACTCAGCTCACTGCAACCTCTGCTCTCC	12240	
QY	12497	CAGATT	CAAG	TGAT	CTCT	CGCTC	AGCTCT	CAGTGTGGATTTACAGGAGCGCACC	12556	
DB	12241	CAGATT	CAAG	TGAT	CTCT	CGCTC	AGCTCT	CAGTGTGGATTTACAGGAGCGCACC	12300	
QY	12557	ACCACA	CTGG	CTAA	TTTTT	GTAT	TTTAT	TAGTAGATGGGTTTCGACATGTTGGCCAGG	12616	
DB	12301	ACCACA	CTGG	CTAA	TTTTT	GTAT	TTTAT	TAGTAGATGGGTTTCGACATGTTGGCCAGG	12360	
QY	12617	CTGGT	CTCG	AACTCT	CAAG	TGAT	CCAC	CCGCTTGGCTCTCCAAAGCGCTGAGA	12676	
DB	12361	CTGGT	CTCG	AACTCT	CAAG	TGAT	CCAC	CCGCTTGGCTCTCCAAAGCGCTGAGA	12420	
QY	12677	TTAGAG	CGGTG	AGCG	ACAC	CGCC	CAGAC	CAATACCAATTTCTAGGGTGTCATAAGCCAG	12736	
DB	12421	TTAGAG	CGGTG	AGCG	ACAC	CGCC	CAGAC	CAATACCAATTTCTAGGGTGTCATAAGCCAG	12480	
QY	12737	GGCTG	TTCT	TGGG	AT	TAG	AAATCAG	GGCCATTCCCTGGTGAGCTCTCTCTTAGTGGAGGA	12796	
DB	12481	GGCTG	TTCT	TGGG	AT	TAG	AAATCAG	GGCCATTCCCTGGTGAGCTCTCTCTTAGTGGAGGA	12540	
QY	12797	CAAA	GT	TACAA	CC	CAG	ACATTC	CAACGAGGAGCAATGCTGTAAATGGAGACAGCT	12856	
DB	12541	CAAA	GT	TACAA	CC	CAG	ACATTC	CAACGAGGAGCAATGCTGTAAATGGAGACAGCT	12600	
QY	12857	CAGG	CACTGG	GGCG	CTCC	TGG	CA	CAGCTGAGTTCAGAGAAAGCTCTCTAGAGAGTGA	12916	
DB	12601	CAGG	CACTGG	GGCG	CTCC	TGG	CA	CAGCTGAGTTCAGAGAAAGCTCTCTAGAGAGTGA	12660	
QY	12917	CCTGT	GAG	AGGG	CGGG	ATTTCC	CA	AGGAGAGACAGATTTTTCAGGAGGAGGAAGTAA	12976	
DB	12661	CCTGT	GAG	AGGG	CGGG	ATTTCC	CA	AGGAGAGACAGATTTTTCAGGAGGAGGAAGTAA	12720	
QY	12977	TGCT	CTCT	CCCT	CA	TAT	TAC	CTTTTCA	AAAAATATCTTTTACAGAGCATCTTTTGTGTCAGG	13036
DB	12721	TGCT	CTCT	CCCT	CA	TAT	TAC	CTTTTCA	AAAAATATCTTTTACAGAGCATCTTTTGTGTCAGG	12780
QY	13037	CCTGT	CTCT	ACT	CACT	GGG	ATAT	AGAGAACGAGGAAGAACAAACAAACAA	13096	
DB	12781	CCTGT	CTCT	ACT	CACT	GGG	ATAT	AGAGAACGAGGAAGAACAAACAAACAA	12840	
QY	13097	AAAGT	CTCT	TTT	CTT	TAG	GAATTA	CA	CGGGAGGAAGACATTTAAACAAATATATATAGCA	13156
DB	12841	AAAGT	CTCT	TTT	CTT	TAG	GAATTA	CA	CGGGAGGAAGACATTTAAACAAATATATATAGCA	12900
QY	13157	TATGAT	AG	CTGG	GCAT	GCCT	CA	TGTCTGTAT	CTCTAGTAAGCGCGGCGGATCACCT	13216
DB	12901	TATGAT	AG	CTGG	GCAT	GCCT	CA	TGTCTGTAT	CTCTAGTAAGCGCGGCGGATCACCT	12960
QY	13217	GAGGT	CAG	AGTT	TCAG	AC	CCG	CTGG	CCAGCGTGGCAAAACCCCATCTCTACTAAAAA	13276
DB	12961	GAGGT	CAG	AGTT	TCAG	AC	CCG	CTGG	CCAGCGTGGCAAAACCCCATCTCTACTAAAAA	13020
QY	13277	TACAAAA	AT	CAG	CTGG	GCAT	GGT	GAG	CGCTGTAAATCCCAAGCTACTCGGAGGCTGAG	13336

[illegible]

QY	15497	AGGCTAAGAGCAACAGATTCTTAGAGCTGGAGCTGCTCGGGTTTCATTTCTCGCTCTGTC	15556	Db	16321	AGGATGAGGGGCGGAGGCTGTCTCCCGGGCCCTGCCTTATCCAGTTCTGGACATCTGC	16380
Db	15241	AGGCTAAGAGCAACAGATTCTTAGAGCTGGAGCTGCTCGGGTTTCATTTCTCGCTCTGTC	15300	QY	16637	GTTGGGATTTCTGAGTTTATGGGCGAGGCAAGAACTTTGTGCTCTCTGAGTGGCGAGGC	16696
QY	15557	TTTACCTCTGCTGTGACCTTGGGCAAGTTACTTAAAGTCTCTGTGCTAGTCTCTCTTCT	15616	Db	16381	GTTGGGATTTCTGAGTTTATGGGCGAGGCAAGAACTTTGTGCTCTCTGAGTGGCGAGGC	16440
Db	15301	TTTACCTCTGCTGTGACCTTGGGCAAGTTACTTAAAGTCTCTGTGCTAGTCTCTCTTCT	15360	QY	16697	CAGCGGATTTGCTCTCTCAGGGGCGTGGCCGGGGGGGGTCTTTGGGGGGCGTGGCCAG	16756
QY	15617	GTAATAAGAAACAGATACAGGGTTTCTGGAACAGCATATGATAGCTATCTAAAAA	15676	Db	16441	CAGCGGATTTGCTCTCTCAGGGGCGTGGCCGGGGGGGGTCTTTGGGGGGCGTGGCCAG	16500
Db	15361	GTAATAAGAAACAGATACAGGGTTTCTGGAACAGCATATGATAGCTATCTAAAAA	15420	QY	16757	GCCAAAGGACTCATCCGGGGCGTGGCCAGGCGAGGGCTCAACGAGGCGAGGGCCGG	16816
QY	15677	AAAAAAGAAAGAAAGAGCTAAGTGTGTGTAATAATAATAAACCCCTCCAGGCTAT	15736	Db	16501	GCCAAAGGACTCATCCGGGGCGTGGCCAGGCGAGGGCTCAACGAGGCGAGGGCCGG	16560
Db	15421	AAAAAAGAAAGAAAGAGCTAAGTGTGTGTAATAATAATAAACCCCTCCAGGCTAT	15480	QY	16817	TGAGGGGCTCTCCGGGGCGTGGCCAGGTGGAGGAATCATCCGGGGCGTGGCCAGGCA	16876
QY	15737	GGGAGTCTAGAGAAATTAAGCCAAAGGACAGGGTAGAGGGTGCCATTTTCTCTCTCT	15796	Db	16561	TGAGGGGCTCTCCGGGGCGTGGCCAGGTGGAGGAATCATCCGGGGCGTGGCCAGGCA	16620
Db	15481	GGGAGTCTAGAGAAATTAAGCCAAAGGACAGGGTAGAGGGTGCCATTTTCTCTCTCT	15540	QY	16877	GAGGGCTCTTCGCGGGCGTGGTCAAGCGGATGAATCTTTGGGGGGTGGTTTAGAGG	16936
QY	15797	AGCGATTCTCATCTCTTCTTCTTGGGTGCTGTCTCTTGGGAGCATTTCTTATCGC	15856	Db	16621	GAGGGCTCTTCGCGGGCGTGGTCAAGCGGATGAATCTTTGGGGGGTGGTTTAGAGG	16680
Db	15541	AGCGATTCTCATCTCTTCTTCTTGGGTGCTGTCTCTTGGGAGCATTTCTTATCGC	15600	QY	16937	GCGGGCTTTTGTCAAGCGATGGATCATTAATAGGCGTGGCCAGGAGATTTGCTCTCTG	16996
QY	15857	TGTGTAAGGTCTAACTGCTCTGCTCTTCTTCTCTTCCACAGCGGGTGCGATGG	15916	Db	16681	GCGGGCTTTTGTCAAGCGATGGATCATTAATAGGCGTGGCCAGGAGATTTGCTCTCTG	16740
Db	15601	TGTGTAAGGTCTAACTGCTCTGCTCTTCTTCTCTTCCACAGCGGGTGCGATGG	15660	QY	16997	GCGGGCGAGCCAGGACAGAGATTAATGAATGAGCGTATCCAGGCGAGTAGATTTCTCGG	17056
QY	15917	GCCCCTCTCTCCCATCCCTCCCTTCCCTTCCCTAGTCCCAACGACCCCAAGCGTCT	15976	Db	16741	GCGGGCGAGCCAGGACAGAGATTAATGAATGAGCGTATCCAGGCGAGTAGATTTCTCGG	16800
Db	15661	GCCCCTCTCTCCCATCCCTCCCTTCCCTTCCCTAGTCCCAACGACCCCAAGCGTCT	15720	QY	17057	AGGGCTGTGCGGGCGGATGAGCTCTCGGGGCGTGGCCAGGCGGTGATTTCTCGGTG	17116
QY	15977	TCTTCGGGGCGAGTCCAGGAGCGCTGCATCTCCGACTTCAGCTTCCTCATGGTCTAG	16036	Db	16801	AGGGCTGTGCGGGCGGATGAGCTCTCGGGGCGTGGCCAGGCGGTGATTTCTCGGTG	16860
Db	15721	TCTTCGGGGCGAGTCCAGGAGCGCTGCATCTCCGACTTCAGCTTCCTCATGGTCTAG	15780	QY	17117	GCATGGCTTGGCCAGGTGAATGGTCTCTCGGAGGTGTCTGAAAGCGGTGAGTTCTCTTG	17176
QY	16037	GAAGAAGCAGTTTGGGAAGTTGGATTCTCTGGGGTTCTGGGGAAAGGAGGATGTCTG	16096	Db	16861	GCATGGCTTGGCCAGGTGAATGGTCTCTCGGAGGTGTCTGAAAGCGGTGAGTTCTCTTG	16920
Db	15781	GAAGAAGCAGTTTGGGAAGTTGGATTCTCTGGGGTTCTGGGGAAAGGAGGATGTCTG	15840	QY	17177	GCGGGTGGCCAGGTGAGTGGGCTCTTGGGGGAGTGGCCAGATGCTCTTTCTCTCGGG	17236
QY	16097	TGGGAAGTCTAGATTTCTGTTCTTAGGAGGAAGTGGGGGTGGGAAGACATGGGCTCC	16156	Db	16921	GCGGGTGGCCAGGTGAGTGGGCTCTTGGGGGAGTGGCCAGATGCTCTTTCTCTCGGG	16980
Db	15841	TGGGAAGTCTAGATTTCTGTTCTTAGGAGGAAGTGGGGGTGGGAAGACATGGGCTCC	15900	QY	17237	AGCTTTGGTCTTCTAGTGGCTGTAGCCAGTGTCTCGAAATTTTTCAGCAAGGGGCGACAGTGG	17296
QY	16157	TGCATCTTCAAAATATGTTAGTTGGCCCTTCAGGTTCTCGAGAGGAGGATTTACAG	16216	Db	16981	AGCTTTGGTCTTCTAGTGGCTGTAGCCAGTGTCTCGAAATTTTTCAGCAAGGGGCGACAGTGG	17040
Db	15901	TGCATCTTCAAAATATGTTAGTTGGCCCTTCAGGTTCTCGAGAGGAGGATTTACAG	15960	QY	17297	AGGAGGTGCTCTTCTAGTGGGCTTGGCCAGAAATGGGCTCCGAGTGACGGGTCTATCAC	17356
QY	16217	ATGTGACACTCTCTTGGAGGGAAGGCGGCAAGTCAAGGCTGTCTCAGTCCCTTAAAGAGA	16276	Db	17041	AGGAGGTGCTCTTCTAGTGGGCTTGGCCAGAAATGGGCTCCGAGTGACGGGTCTATCAC	17100
Db	15961	ATGTGACACTCTCTTGGAGGGAAGGCGGCAAGTCAAGGCTGTCTCAGTCCCTTAAAGAGA	16020	QY	17357	TTTTGGATTTCTGACTGAAGGACATCAGAAACAGGACATTAATTTCTTAGAGTTGCGAC	17416
QY	16277	TGAGGAAGGGCTTGGATCCCGTTTCTGCTGCTCTTGGAGGGGGCAGGTCTGTGA	16336	Db	17101	TTTTGGATTTCTGACTGAAGGACATCAGAAACAGGACATTAATTTCTTAGAGTTGCGAC	17160
Db	16021	TGAGGAAGGGCTTGGATCCCGTTTCTGCTGCTCTTGGAGGGGGCAGGTCTGTGA	16080	QY	17417	TTAGGGCAGAGAGTCAAGAACTTTTAAAGGGGCGTGAATTTTCTTCCAGGGG	17476
QY	16337	CCACTGGTTCACAAATGACATGAGCTGGCCCTTTTGGAACTGTGCGCATAGTGTGCGCC	16396	Db	17161	TTAGGGCAGAGAGTCAAGAACTTTTAAAGGGGCGTGAATTTTCTTCCAGGGG	17220
Db	16081	CCACTGGTTCACAAATGACATGAGCTGGCCCTTTTGGAACTGTGCGCATAGTGTGCGCC	16140	QY	17477	CTCCGAATGAGAGTGGCCAGCCACTGGATTAAATAATATATGATGAGCAACTTTGATTTCC	17536
QY	16397	GAGCGAGGGCTCTGATGAGCTCTACGCCATCAAGATCTTGAAGAAAGACGTGATCGTC	16456	Db	17221	CTCCGAATGAGAGTGGCCAGCCACTGGATTAAATAATATATGATGAGCAACTTTGATTTCC	17280
Db	16141	GAGCGAGGGCTCTGATGAGCTCTACGCCATCAAGATCTTGAAGAAAGACGTGATCGTC	16200	QY	17537	TTTTTTTTTTTTTGAGAAAGGAGTTAGTCTTGTCTCCCGCAGGCGTGAGTGCATATGGCGGA	17596
QY	16457	CAGGACGACATGTGACCTGAGCTGGTGGAGAAAAGTGTGTGCTGCGCTGGGGGGCGG	16516	Db	17281	TTTTTTTTTTTTTGAGAAAGGAGTTAGTCTTGTCTCCCGCAGGCGTGAGTGCATATGGCGGA	17340
Db	16201	CAGGACGACATGTGAGCTGACGCTGGTGGAGAAAAGTGTGTGCTGCGCTGGGGGGCGG	16260	QY	17597	TCTGGCTCATCTGCAACCTCCGCGCTTAAAGCAATTTCTCCCTCTCAGCTCTCT	17656
QY	16517	GGTCTGGGGGGCGGCGCCCATCTTCCATCCAGCTCCCATCTCCACTTCCAGACCCCGGTA	16576	Db	17341	TCTGGCTCATCTGCAACCTCCGCGCTTAAAGCAATTTCTCCCTCTCAGCTCTCT	17400
Db	16261	GGTCTGGGGGGCGGCGCCCATCTTCCATCCAGCTCCCATCTCCACTTCCAGACCCCGGTA	16320	QY	17657	GAGTAGCTGGGATTAAGGCTCCCGCCACACACTCAGCTGATTTTGTATTTTAGTAG	17716
QY	16577	AGGATGAGGGGGCGAGGCTGTCTCTCCGGGCGCTGCCTTATCCAGTTCTCGACATCTGC	16636				

Db	17401	GAGTAGCTGGGATTACAGGCTCCGCCACACACTCAGCTGATTTTGTATTTTGTAGTAG	17461
Qy	17717	AGACCGGGTTTCGCACAGTTGGCCAGGCTGGTCTGGAACCTCTGACCTCAGGTGATCCAC	17776
Db	17461	AGACCGGGTTTCGCACAGTTGGCCAGGCTGGTCTGGAACCTCTGACCTCAGGTGATCCAC	17520
Qy	17777	CCGCTTCGGCCTCCCAAGTGTCTGGGATTACAGGCGTGAGCCACACGCCCAGCTGC AAC	17836
Db	17521	CCGCTTCGGCCTCCCAAGTGTCTGGGATTACAGGCGTGAGCCACACGCCCAGCTGC AAC	17580
Qy	17837	TTTGATTCTTTAGTAGGAAGCCAGAAATTCATCTGTGTGTGAGTGGCTGTGGAAGAGATT	17896
Db	17581	TTTGATTCTTTAGTAGGAAGCCAGAAATTCATCTGTGTGTGAGTGGCTGTGGAAGAGATT	17640
Qy	17897	TTGGTGTTCGGGATTTCGAGCGAATGGTGGGCTTCAGTCTTCAATTCGAGAGAGCGGG	17956
Db	17641	TTGGTGTTCGGGATTTCGAGCGAATGGTGGGCTTCAGTCTTCAATTCGAGAGAGCGGG	17700
Qy	17957	GCAGAAACGCTGGTCTGATAGTGTGGCGGTGGTCTGGCGGGTGGAGATTCTGAGGTAGCA	18016
Db	17701	GCAGAAACGCTGGTCTGATAGTGTGGCGGTGGTCTGGCGGGTGGAGATTCTGAGGTAGCA	17760
Qy	18017	GGATTAGCACTTAGGGCCCTCCACGGGATGTGGCTAGGTGCTCTGAAATTCCTGTGGTGG	18076
Db	17761	GGATTAGCACTTAGGGCCCTCCACGGGATGTGGCTAGGTGCTCTGAAATTCCTGTGGTGG	17820
Qy	18077	TGCATCTGGAAACCTTCCACGTCTGCTCCTCAGTGTATCAGGAAGAATTCCTCTACTCTGG	18136
Db	17821	TGCATCTGGAAACCTTCCACGTCTGCTCCTCAGTGTATCAGGAAGAATTCCTCTACTCTGG	17880
Qy	18137	GTAGATGGATCCCGCCTCTAAGCCCATGCACTTCTCCGAGGACCGCTGATTTCGTGA	18196
Db	17881	GTAGATGGATCCCGCCTCTAAGCCCATGCACTTCTCCGAGGACCGCTGATTTCGTGA	17940
Qy	18197	TGAGTAGCTACCGGGGGAGACTTCAATGTACCAATTCACAGCTGGGGCAAGTTTAAG	18256
Db	17941	TGAGTAGCTACGTCACCGGGGGAGACTTCAATGTACCAATTCACAGCTGGGGCAAGTTTAAG	18000
Qy	18257	AGCCCCATGCAGCGTGAAGTCTCGGCCAAACAGAGAAATGGTTCGGGGTGGTGGAGGGGGCAG	18316
Db	18001	AGCCCCATGCAGCGTGAAGTCTCGGCCAAACAGAGAAATGGTTCGGGGTGGTGGAGGGGGCAG	18060
Qy	18317	GATCCAGCACTGACCTTCTGAGCTGCCACCCACCCCGTCTCCAGGTTCTACGCCGA	18376
Db	18061	GATCCAGCACTGACCTTCTGAGCTGCCACCCACCCCGTCTCCAGGTTCTACGCCGA	18120
Qy	18377	GAAATCGCTATCGGCTCTCTCTTCTTCAATACAGGCGCATCATCTACAGGTGAGCAGCC	18436
Db	18121	GAAATCGCTATCGGCTCTCTCTTCTTCAATACAGGCGCATCATCTACAGGTGAGCAGCC	18180
Qy	18437	CCAGGAAATTCCTGGAGGAAATCACGCCCTCTGGAAAGGAAAGGATTTGAATATGTGGCT	18496
Db	18181	CCAGGAAATTCCTGGAGGAAATCACGCCCTCTGGAAAGGAAAGGATTTGAATATGTGGCT	18240
Qy	18497	CTAGAGCTGCAACTCAACACTTCTTGGCAATTCCTGCCCCACACCCCTGCATCTGTCAGG	18556
Db	18241	CTAGAGCTGCAACTCAACACTTCTTGGCAATTCCTGCCCCACACCCCTGCATCTGTCAGG	18300
Qy	18557	GACCTGAAGCTGGACAATGTGATGCTGGATGTCTGAGGGGACATCAAGATCACTGACITTT	18616
Db	18301	GACCTGAAGCTGGACAATGTGATGCTGGATGTCTGAGGGGACATCAAGATCACTGACITTT	18360
Qy	18617	GGCATGTGTAGGAGAACGTCTTCCCGGGACGACAAACCGGACCTTCTGGGGACCCCG	18676
Db	18361	GGCATGTGTAGGAGAACGTCTTCCCGGGACGACAAACCGGACCTTCTGGGGACCCCG	18420
Qy	18677	GACTACATAGCCCGGAGGTAAACCCAAACCCCTGCTCTGTGTCACGCTTTGAGATCCCT	18736
Db	18421	GACTACATAGCCCGGAGGTAAACCCAAACCCCTGCTCTGTGTCACGCTTTGAGATCCCT	18480
Qy	18737	TAGAGGGTGTAGTGTGTCAGTATTCCACCGGGTGAAGGCTGAGCCCTCAGACCTTG	18796
Db	18481	TAGAGGGTGTAGTGTGTCAGTATTCCACCGGGTGAAGGCTGAGCCCTCAGACCTTG	18540

Db	21781	GTAGAGTTAAATAAATTTGGCCGACATGTTGGCTCACGCCTGTAATCCAGCACT	21840
QY	22097	TTGGAGGCCGAAGTGGGAGATCACTTGAGGTGAGAGTTTGAGACGAGCCTGGCCAAAT	22156
Db	21841	TTGGAGGCCGAAGTGGGAGATCACTTGAGGTGAGAGTTTGAGACGAGCCTGGCCAAAT	21900
QY	22157	ATGATGAACCCCATCTCTAAATCTTTGCTTGGTATCAATTTTGTAACTTCAGAGAC	22216
Db	21901	ATGATGAACCCCATCTCTAAATCTTTGCTTGGTATCAATTTTGTAACTTCAGAGAC	21960
QY	22217	TGTGAATCTACTCATCCAAACAGGAGAAATCTTTTAGGGTGTCTTCTGCAAGTTTTCCTCT	22276
Db	21961	TGTGAATCTACTCATCCAAACAGGAGAAATCTTTTAGGGTGTCTTCTGCAAGTTTTCCTCT	22020
QY	22277	CTTCTATTAACTGACATGTTGCATAAATTAACAGCCTGCTGATTTTACATAGCAGATAAAG	22336
Db	22021	CTTCTATTAACTGACATGTTGCATAAATTAACAGCCTGCTGATTTTACATAGCAGATAAAG	22080
QY	22337	AGAGGCAGAAATAGTACAGAGATGCACAGATCTTGAGGCATCCGAGATAGGAAATGAGAGAA	22396
Db	22081	AGAGGCAGAAATAGTACAGAGATGCACAGATCTTGAGGCATCCGAGATAGGAAATGAGAGAA	22140
QY	22397	CCTGAGAACGAGAGATCAAGCTTTGGTGTGGTCTGATCTCTCTGAGGGTGTGGT	22456
Db	22141	CCTGAGAACGAGAGATCAAGCTTTGGTGTGGTCTGATCTCTCTGAGGGTGTGGT	22200
QY	22457	CAGGTGTGATGTGGGCGTGTGATGGGTGAGGCATGTTCCGGTGGGGTGGAGGGGTG	22516
Db	22201	CAGGTGTGATGTGGGCGTGTGATGGGTGAGGCATGTTCCGGTGGGGTGGAGGGGTG	22260
QY	22517	TGGAAGTTTGGGAAAGGACAGTTGGGCATGTCCTGACTCTCTATCCCTCCACTTTGA	22576
Db	22261	TGGAAGTTTGGGAAAGGACAGTTGGGCATGTCCTGACTCTCTATCCCTCCACTTTGA	22320
QY	22577	TAGCCTCCCTTCGATGGGAGGACGAGGAGAGCTGTTTCAGGCCATCATGAAACAAACT	22636
Db	22321	TAGCCTCCCTTCGATGGGAGGACGAGGAGAGCTGTTTCAGGCCATCATGAAACAAACT	22380
QY	22637	GTCACCTACCCAGTGGCTTTCCGGGAAGCGGTGGCCATCTGCAAGGGGTGAGGCC	22696
Db	22381	GTCACCTACCCAGTGGCTTTCCGGGAAGCGGTGGCCATCTGCAAGGGGTGAGGCC	22440
QY	22697	CCCTGACTCCAGCTTCTCAGGCTCACAAACACACACACCCATGCTGCTCTGTCGCTTA	22756
Db	22441	CCCTGACTCCAGCTTCTCAGGCTCACAAACACACACACCCATGCTGCTCTGTCGCTTA	22500
QY	22757	TTAGAAAAATGCTCCCATTCCTGAAAGTCACTTTACTTCCATCTGTTGGAAAAAGTTGATAT	22816
Db	22501	TTAGAAAAATGCTCCCATTCCTGAAAGTCACTTTACTTCCATCTGTTGGAAAAAGTTGATAT	22560
QY	22817	GATGCATAGGTTTGTAGAAACAATGATTTCCAGCCCTGCTGCCACGAGGCCCTGGAGATG	22876
Db	22561	GATGCATAGGTTTGTAGAAACAATGATTTCCAGCCCTGCTGCCACGAGGCCCTGGAGATG	22620
QY	22877	GCCTCTGCTCATCTTCTCTGTGACTCCCACTCCCCAGCTCCCTGCTTGCAGGAAGTGC	22936
Db	22621	GCCTCTGCTCATCTTCTCTGTGACTCCCACTCCCCAGCTCCCTGCTTGCAGGAAGTGC	22680
QY	22937	TGAAAGTCAGGGTGTCTGCTGTCTAGAACTGGGTGGGTGAGGTAAACCCAACTTCTGC	22996
Db	22681	TGAAAGTCAGGGTGTCTGCTGTCTAGAACTGGGTGGGTGAGGTAAACCCAACTTCTGC	22740
QY	22997	AGCTTTTCTCTGCTGTGAATCTGGGTGAGTCACCAAAATTTTGTGAGCTTAATCTCTTT	23056
Db	22741	AGCTTTTCTCTGCTGTGAATCTGGGTGAGTCACCAAAATTTTGTGAGCTTAATCTCTTT	22800
QY	23057	CAGGGGTATGAGATTGACACAGAGAAAGACACCTGGGCCCATAGCAGATTTTTCAGCCCAT	23116
Db	22801	CAGGGGTATGAGATTGACACAGAGAAAGACACCTGGGCCCATAGCAGATTTTTCAGCCCAT	22860
QY	23117	GTCAGACCTTCTGGGTCTAGTGTCTCTCTGCACTCTCCCTGACAGTCTCTCTGGTTTC	23176
Db	22861	GTCAGACCTTCTGGGTCTAGTGTCTCTCTGCACTCTCCCTGACAGTCTCTCTGGTTTC	22920

QY	23177	TGTCATGCTCCCTCCATCTGCATACGATGGGGCTCTCTGTGTTTCTTCTCTTCTC	23236
Db	22921	TGTCATGCTCCCTCCATCTGCATACGATGGGGCTCTCTGTGTTTCTTCTCTTCTC	22980
QY	23237	TGTCATGCTCCCTCCATCTGCATACGATGGGGCTTGTGTCACCCCTTACCCCTC	23296
Db	22981	TGTCATGCTCCCTCCATCTGCATACGATGGGGCTTGTGTCACCCCTTACCCCTC	23040
QY	23297	CATCTGTGCTCCCTCCATCTGCATACGATGGGGCTCTCATACACAGCTATCTCAGCTCTC	23356
Db	23041	CATCTGTGCTCCCTCCATCTGCATACGATGGGGCTCTCATACACAGCTATCTCAGCTCTC	23100
QY	23357	CTGCTGGCTTCTGCTCTCCCTTCTCTGGGTCTCTGTGCCCATATTTGGTCTTTATTC	23416
Db	23101	CTGCTGGCTTCTGCTCTCCCTTCTCTGGGTCTCTGTGCCCATATTTGGTCTTTATTC	23160
QY	23417	CTCCTCTGGGTGTGTTTCTGGGTCTCTATCTCTCTCTCTCTCTCTCTCTCTCTCTCT	23476
Db	23161	CTCCTCTGGGTGTGTTTCTGGGTCTCTATCTCTCTCTCTCTCTCTCTCTCTCTCTCT	23220
QY	23477	CCTGGGTCT	23536
Db	23221	CCTGGGTCT	23280
QY	23537	TACCACCTCTGAATTTCTATTTCCCTTCTCTCTGGGTCTGCAACCTCTCTTCCCTCCAT	23596
Db	23281	TACCACCTCTGAATTTCTATTTCCCTTCTCTCTGGGTCTGCAACCTCTCTTCCCTCCAT	23340
QY	23597	TCCCTCCCTCTTCCCT	23656
Db	23341	TCCCTCCCTCTTCCCT	23400
QY	23657	CTGTCT	23716
Db	23401	CTGTCT	23460
QY	23717	CCCTTCT	23776
Db	23461	CCCTTCT	23520
QY	23777	TGTTCTGTTCTCTGTGTGCTCTGGGTCTCTGGGTATGAATTTTCTCTCTCTCTCTCTCT	23836
Db	23521	TGTTCTGTTCTCTGTGTGCTCTGGGTCTCTGGGTATGAATTTTCTCTCTCTCTCTCTCT	23580
QY	23837	CATGTAATCT	23896
Db	23581	CATGTAATCT	23640
QY	23897	GTCT	23956
Db	23641	GTCT	23700
QY	23957	TCTCTGTCTGTCT	24016
Db	23701	TCTCTGTCTGTCT	23760
QY	24017	CCT	24076
Db	23761	CCT	23820
QY	24077	CT	24136
Db	23821	CT	23880
QY	24137	TCTCGGATCTCATGCTGTCT	24196
Db	23881	TCTCGGATCTCATGCTGTCT	23940
QY	24197	CTCTGGGTCTACCTGTCCGGACCTCTGTCTGTCTGTCTGTCTGTCTGTCTGTCTGTCT	24256
Db	23941	CTCTGGGTCTACCTGTCCGGACCTCTGTCTGTCTGTCTGTCTGTCTGTCTGTCTGTCT	24000

Qy	24257	CACAGTTCCTGACACAGGACCCAGGGAAAGCGCTCTGGGCTCAGGGCTCTGATGAGGGAAACCTTA	24316
Db	24001	CACAGTTCCTGACACAGGACCCAGGGAAAGCGCTCTGGGCTCAGGGCTCTGATGAGGGAAACCTTA	24060
		CCATCCGTGACATGAGCTTTTTCGCTGGATTGACTTGGGAGCGGCTGGAAACGATTGGAGA	24376
Db	24061	CCATCCGTGACATGAGCTTTTTCGCTGGATTGACTTGGGAGCGGCTGGAAACGATTGGAGA	24120
Qy	24377	TCCCGCTCTCTTTTTCAGACCCCGGCCGGTCAGTCAACCTCTCAGGCAACAAAAACCTGGTCC	24436
Db	24121	TCCCGCTCTCTTTTTCAGACCCCGGCCGGTCAGTCAACCTCTCAGGCAACAAAAACCTGGTCC	24180
Qy	24437	CTGAAGGSGTGGGGTTCCTCTGGGCTCAATATACCTGTATGTGGGGTGGGGTTCCTCTC	24496
Db	24181	CTGAAGGSGTGGGGTTCCTCTGGGCTCAATATACCTGTATGTGGGGTGGGGTTCCTCTC	24240
Qy	24497	TGCAGAGCCCCCGCCCCCAACAAAAAGGAGGTGCAGACACCATGAAGCATGAATAGAGAT	24556
Db	24241	TGCAGAGCCCCCGCCCCCAACAAAAAGGAGGTGCAGACACCATGAAGCATGAATAGAGAT	24300
Qy	24557	TCTGCAGGACACAGGAGATGAGACTGGGGTACACAGAGGGAACCCGAGGAGCCCTCGGA	24616
Db	24301	TCTGCAGGACACAGGAGATGAGACTGGGGTACACAGAGGGAACCCGAGGAGCCCTCGGA	24360
Qy	24617	GCTGCTTAACTTTTCCCTCCCGCAGCTCTCCACAGTGTGCGCGCGAGCGAGACTTTTG	24676
Db	24361	GCTGCTTAACTTTTCCCTCCCGCAGCTCTCCACAGTGTGCGCGCGAGCGAGACTTTTG	24420
Qy	24677	ACAAGTCTTTACGCGGGGGCGGCCAGCGCTGACCCCTCCAGACCGCTAGTCTCTGGCCA	24736
Db	24421	ACAAGTCTTTACGCGGGGGCGGCCAGCGCTGACCCCTCCAGACCGCTAGTCTCTGGCCA	24480
Qy	24737	GCATCGACGAGCGGATTTCCAGGGCTTCACTTACGTGAACCCGAGCTTGTGTGACCCGG	24796
Db	24481	GCATCGACGAGCGGATTTCCAGGGCTTCACTTACGTGAACCCGAGCTTGTGTGACCCGG	24540
Qy	24797	ATCGCGGACGCCCCACAGCCAGTGCCTGTGCGGTCAATGAATCTCACCCGCGCGCAC	24856
Db	24541	ATCGCGGACGCCCCACAGCCAGTGCCTGTGCGGTCAATGAATCTCACCCGCGCGCAC	24600
Qy	24857	TAGGTGTCCCAAGCTCCCTCGCGGTGCGCGGCGAGCCCACTTCAACCCCAACTTC	24916
Db	24601	TAGGTGTCCCAAGCTCCCTCGCGGTGCGCGGCGAGCCCACTTCAACCCCAACTTC	24660
Qy	24917	ACCACCCCTGTCCCAATTTCTAGATCTGCAACCCGAGCATTCAGAGTCTGCCCCCGCGGT	24976
Db	24661	ACCACCCCTGTCCCAATTTCTAGATCTGCAACCCGAGCATTCAGAGTCTGCCCCCGCGGT	24720
Qy	24977	TCTAGAGCCCTTCCCAAGGTTTCTGGGCTTCTGAATCTCATACAGGCTCTACAGCGGT	25036
Db	24721	TCTAGAGCCCTTCCCAAGGTTTCTGGGCTTCTGAATCTCATACAGGCTCTACAGCGGT	24780
Qy	25037	CCGCGTTCAAGACTTGAAGG	25057
Db	24781	CCGCGTTCAAGACTTGAAGG	24801

RESULT 2

US-10-684-042-18/c
Sequence 18, Application US/10694042
GENERAL INFORMATION:
APPLICANT: BULLERDIEK, Jörn
APPLICANT: RIPPE, Volkhard
APPLICANT: BELGE, Gazarfer
APPLICANT: MEIBOOM, Maren
TITLE OF INVENTION: Nucleic acid sequences of hyperplasias and tumors of the thyroid
FILE REFERENCE: B&L-100US
CURRENT APPLICATION NUMBER: US/10/684,042
CURRENT FILING DATE: 2003-10-10
PRIOR APPLICATION NUMBER: PCT/EP02/04090
PRIOR FILING DATE: 2002-04-12
PRIOR APPLICATION NUMBER: DE10118452.2
PRIOR FILING DATE: 2001-04-12

LOCATION: (22324)..(22432) OTHER INFORMATION: Exon 16 FEATURE: NAME/KEY: exon LOCATION: (24005)..(24146) OTHER INFORMATION: Exon 17 FEATURE: NAME/KEY: exon LOCATION: (24395)..(24801) OTHER INFORMATION: Exon 18 US-10-684-042-18		Query Match Best Local Similarity 55.4%; Pred. No. 0; Matches 1228; Conservative 0; Mismatches 571; Indels 418; Gaps 10;	
QY	12013	TTTTTATTTTTTTTGGACGGAGTCTGGTGTGACGCCAGGCTGAGTGCAGTGGT	12072
DB	13764	TTTTTTTTTTTTTTCTGAGATAGAGTCTGGTCTGTCAACCCAGGCTGTAGTGCAGTGGA	13705
QY	12073	CGATCTCGGCTCACTGCAAGCTCCGCTCTGGGTTTCAGGCCATTTCTCTGCATCAGCCT	12132
DB	13704	CGATCTCGGCTCACTGCAAGCTCCACCTCCAGGTTTCATGCCATTTCTCTGCCTCAGCCT	13645
QY	12133	CCTGAGTACCTGGGACTACAGGCGCCACACCATGCGCGCTAA-TTTTTTGTATTTT	12191
DB	13644	CCTGAGTACCTGGGACTACAGGCGCCACACCATGCGCGCTAA-TTTTTTGTATTTT	13585
QY	12192	AGTAGAGATGGGGTTTCAACCGTTGTAGCAGGATGGTCTCGATCTCTGACCTGGTGATC	12251
DB	13584	AGTAGAGCGGGATTACCGTGTGTAGCAGGATGGTCTCGATCTCTGACCTGGTGATC	13525
QY	12252	CACCGCGCTCAGCCTCCAAAGTGTGGGATPACAGGCGTGGGCCACACACCCAGCCGA	12311
DB	13524	CACCGCGCTTGGCCTCCCAAGTGTGGGATPACAGGCGTGGGCCACACACCCAGCCGA	13465
QY	12312	TTCTTTGAGTTTAAAA-----	12327
DB	13464	AGAGCCCATTTCTAAACTTAATTTGCAAAAGGATCACTGAGGAAATTAATTAGTAGGC	13405
QY	12328	-----	12327
DB	13404	AGACATTTGAGGCATCAGAGAGATCGTCACTGAGTAGGTCTGCAGAAAGGCTGGGGAATG	13345
QY	12328	-----	12327
DB	13344	TGCTTTTAAAGCAAGCACTCTAGGAAATTCGTGATCGAGGTGAACCCCAACACAACT	13285
QY	12328	-----AATCTATCAAGCATGATCATCTTAATCTCTCCATTCATTCAATCACT	12374
DB	13284	AAAACTCTGGTGAAGTTTCTGTAAAGTCCAGTAAAGACTATAACATGTTGTCTGT	13225
QY	12375	CACCTGAATACCTCTTTTCTTTCTTTCTTTCTTTCTTTCTTTTGTGAGACAAATCT	12434
DB	13224	TGTTGAATCTTGAAGATCTTGTCTCTTTTCTTTTCTTTTCTTTTGTGAGACAAATCT	13165
QY	12435	CCTTTGTACCCAGGTGGAGTCACTGATCTCACTGATCTCACTCACTCACTCGCT	12494
DB	13164	CCCTCTGATCCAGGCTGGAGTGCAGTGGAGCGATCTGGGCTCACTGAGCCTCTACT	13105
QY	12495	CCAGATTCAGTGATTTCTCTCGCTCAGCCTCTGAGTAGTTGGGATTAACAGGAGCGCA	12554
DB	13104	CCCGAATCCAGCAATTTCTCTGCTCAGCCTTCCAGTAGTGGGATTAACAGGCGCTC	13045
QY	12555	CCACCACACCTCGGCTAAATTTTGTATTTTGTATTTTGTATTTTGTATTTTGTGAGAT	12614
DB	13044	CACCATGCCAGCTGATTTTGTATTTTGTATTTTGTATTTTGTATTTTGTGAGAT	12985
QY	12615	GGCTGGTCTGCACTCTGACCTCAAGTATCCACCGGCTTGGGCTCCCAAGGCGTGA	12674
DB	12984	GGCTGGTCTCAAACTCTGACCTCAAGTATCCACCGGCTTGGGCTCCCAAGGCGTGA	12938
QY	12675	GATTAGAGCGGTGAGCGACCGCCGAC-----ACGAATACCCATTTTCTAGGTTGT	12726

DB	12937	GATCAGACATGAGGCATCGTCCAGTCTATCATATGCTTATATATTTTGTATATGT	12878
QY	12727	CATAAGCCAGGCCCTGTTCTGGGAATAGAAATCAGGCCATTCCTCTGGTGGAGCTTCT	12783
DB	12877	CTTCTCCCGTGTAAATCCCATAAAGGAAAGAACTTTTTTGTGTTGTTGTTTCTTT	12818
QY	12784	-----TTCTAGTGGAGGACAAAGTTTACAAACCCAGACATTCACACGAGGACCAATGC	12836
DB	12817	CCCTGCTTTCTTATATCCAGTAGTAGAGCCAGCCTGGGACACAAAGATGCTCTGT	12758
QY	12837	TGCTGTAATGGACACAGCCTCAGGCATCTGGGCGTCCCTGGCACAGCTGAGTCAGAGAA	12896
DB	12757	AAAGTATTTTTCGAAAGGGTAAATGAGGAGAGAGCAATTAATCTCTCTGCTGAAAATC	12698
QY	12897	AGCTTCTCAGAGGTGAGACCTGGTAGAGGGGGGATTTCCCAAGGAGAGACCAAGAT	12956
DB	12697	TGCTCTCTCTTTTGGGAAATCCCGCCCTTCTACAGGCTCTCACCTCTCTAGGAAGCTTTC	12638
QY	12957	TTTCAGGACAGGAGGAAGTAAATGCTCTCTCCCTCATTTTACCCCTTTTCAAAAATACTTTACA	13016
DB	12637	TCTGACTCAGGCTGTGCCAGGAGCGCCAGTGCCTGAGGCTGTCTCTCAATTACAGCAGCA	12578
QY	13017	GAGCATCTTTGTGTGCCAGCGCTGTCTACTCACTGGGGATATAGAGAAAGCAGGAGAA	13076
DB	12577	TTGCTCTCTGTTGTGAATGTCTGGGTTGTAACTTTGTCTCTCCACTAG-----AA	12528
QY	13077	GAACAAACAAACAAACAAAGTTTCTTTTCTTTATGGGATTTACACCGGAGGAGAGACA	13136
DB	12527	GAAGAGCTCCACAGGGAATGGCTGATTTCTATTTCCAGAACAGGGCTTGCCTTATGACA	12468
QY	13137	TTAAACAAATATATAGCATATATAGACTGTGGCAGCATGCTGCTCATCTGTCTGTGATCCTA	13196
DB	12467	CCCTAGAAATGGTATTCT-----CTGGGCTGGTCTGCTCAACGCTCTAATCTCA	12416
QY	13197	G-----TAAGCGGCGGATCACCTGAGTCAAGGATTTGAGACGAGCCTGG	13243
DB	12415	GGCTTTGGGAGGCGCAAGCGGGTGGATCACTTGAGTCAAGGATTTGAGACGAGCCTGG	12356
QY	13244	CCAGCTGGCAAAACCCCATCTCTACTTAAATAATACAAATAATCAGCTGGGATGGTGGAG	13303
DB	12355	CCAACTGTCCGAAACCCCATCTCTACTTAAATAATACAAATAATGAGGATGGTGGTGG	12296
QY	13304	GGCCTCTAATCCAGTACTCGGAAAGCTGAGCAGGAGAAATTTGCTGATTTCCGGGAAG	13363
DB	12295	GCTCTGTATCCCACTACTCAGGAGCTGAGCAGGAGAAATCATTGATCTGGGAGG	12236
QY	13364	TAGAGCTGAGTGGCCAGATCGCTCACTGCACTCCAGCCTGGATGACAGAGGAGA	13423
DB	12235	CAGAGTTGCAGTGAGCTGCACTCACTGCACTCCCAACCTGGGTGACAAAGAGAGA	12176
QY	13424	CTCTGCTCAAAAAAATAAAAAAAGAGACAAAGAAATCTTCAAGATTTCAACAACA	13483
DB	12175	TTCTGCTCAAAAAAATAAAAAAAGAGAAAGAAAGAAAGAAAGATTTTCAAGTGT	12116
QY	13484	GCACAACTATTTATAGTCTTTTACTGGACTCTTTACAGAAATTTTACCAGATTTTAAAT	13543
DB	12115	GAATGAATGAATGGAGAGATTAAGATCATCTGCTTGTATAGATT-----	12072
QY	13544	GTTGTGTGGGGTTCCCTGCATCAGAAATTCCTAGAGTCTTGTCTTTTAAAGACAT	13603
DB	12071	-----	12072
QY	13604	TCCCCAGCCTTTCTGCAGACCTACTCAGTGACGATCTCTCTGATGCTCAAAATGTGCC	13663
DB	12071	-----	12072
QY	13664	TACTAAATTAATTCCTCAGGTGATCTTTTTCGAAAGTTAAGTTTGAAGATGGGCTCTGCG	13723
DB	12071	-----TTTAAAACTCAAGAAATCG	12053
QY	13724	GGCGGCGAGTGGCTCAGCCTGTCTATCCAGCACTTTGGGAGCCCAAGCGGCTGGAT	13783

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